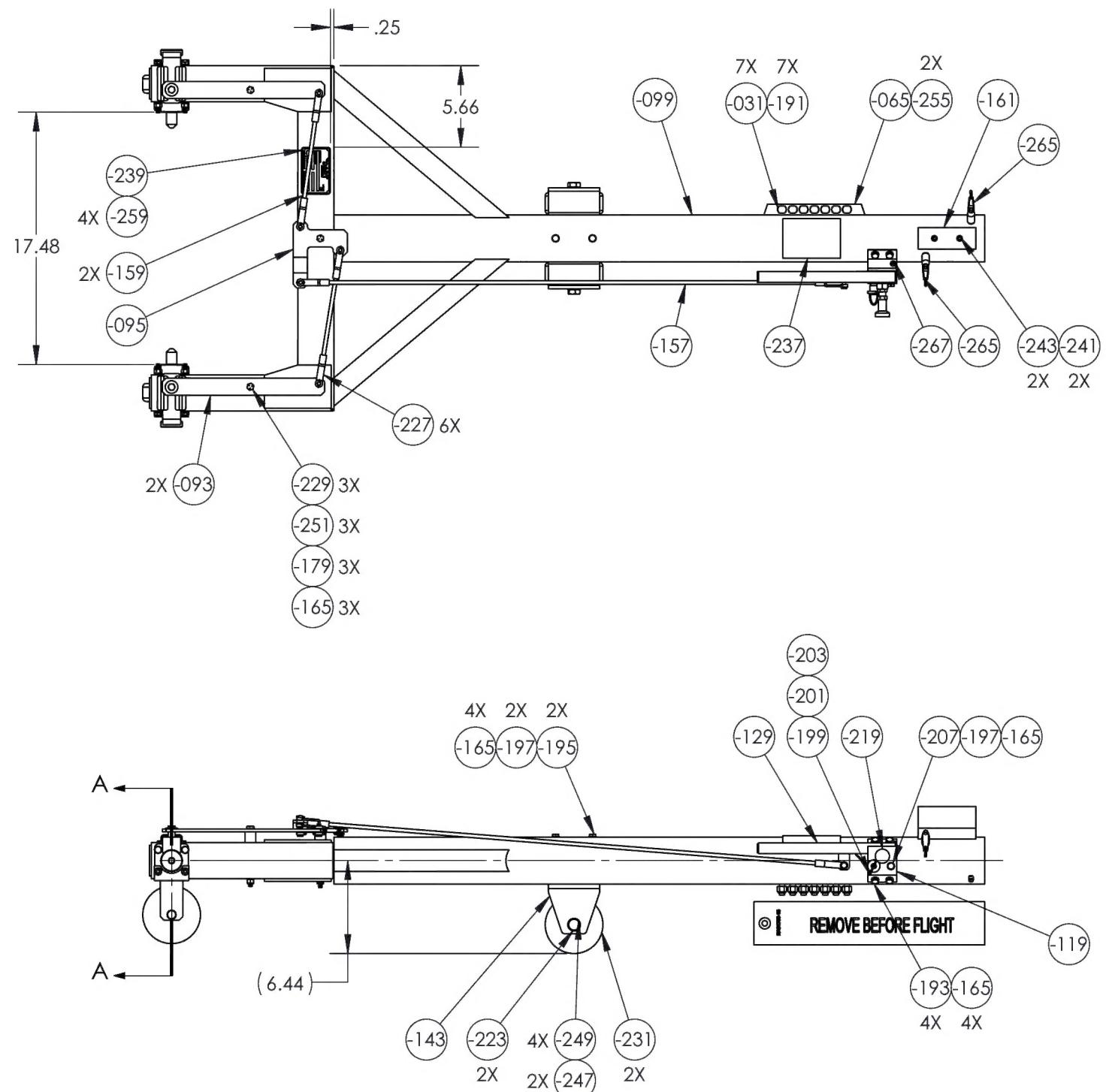
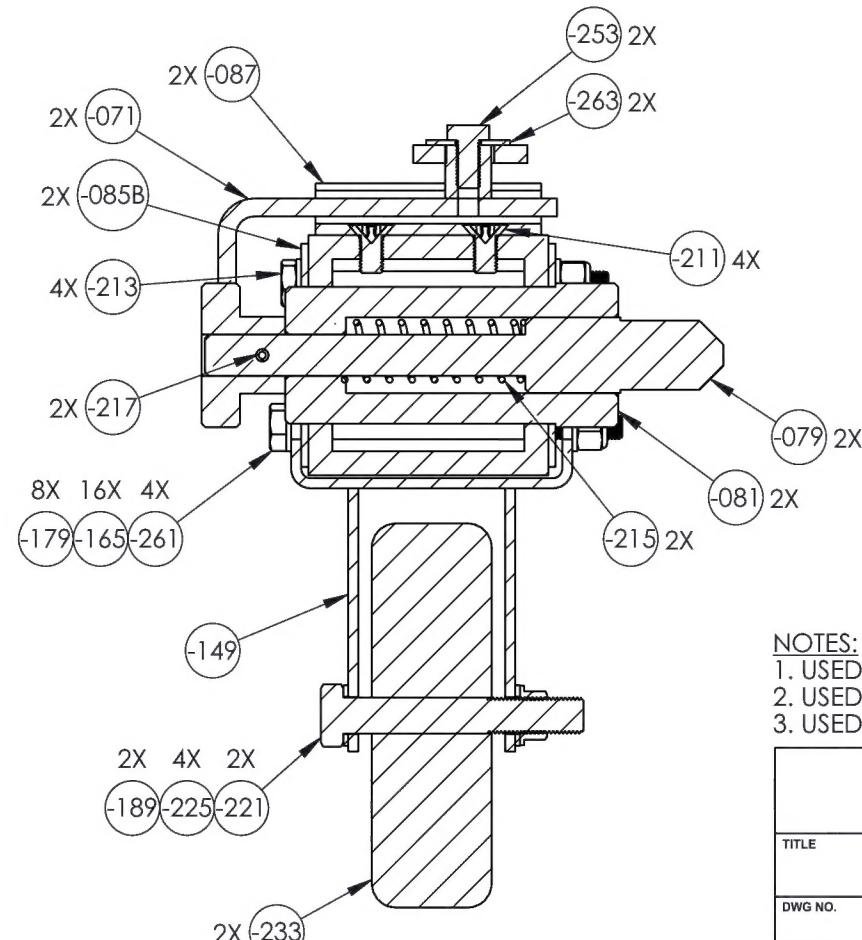


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REVISIONS			
REV	ECR	DESCRIPTION	DATE
1		DELETED -063 FROM DWG. MADE REFERENCE IN BOM FOR -063 TO SEE RBW0905G12351-3G.	4/28/2010
1A		REMOVED BREAK AWAY ASSY. PARTS -063, -173 THRU -177 & -181 THRU -187. REMOVED ASSOCIATED PAGES, AND RE-NUMBERED ALL PAGES & CORRECTED BOM.	5/19/2010
2		-065 WAS 3 PART WELDMENT (-067, 2X -069) IS SINLGE PART. -31 SEPERATED TO OWN DWG. -95 CORRECTED ASSEMBLY TO -159. REMOVED TONGUE ASSEMBLY PARTS -3 THRU -51. REMOVED ASSOC. PAGES, RENUMBERED PAGES. ADDED TONGUE ASSEMBLY REF RBW0905G00134-3G-01. -052 ADDED BREAK AWAY ASSEMBLY RBW0905G12631-3G. CORRECTED BOM.	1/23/2013
2A	14-0158	CH'D TITLEBLOCK WAS RED BARN IS DART. CH'D DIM TOLERANCES ON NON-CRITICAL DIM. REMOVED -001, -031 AND -052 FROM BOM. CH'D DRAWING # WAS RBW0905G00134-3G IS RBW0905G00134-3G-03. -073, -077, -089, -093, -103, -111, -113, -115, -117, -0121, -123, -125, -131, -133, -135, -137, -139, -141, -145, -147, -151, -153 CH'D SPECIFICATIONS. -119 ADDED NOTE. -121 ADDED AUX VIEW.	9/24/2014
3	14-0228	-097 CH'D CENTER HOLE WAS 1/4-28 UNF THRU ALL. -101 CH'D DIMENSION WAS 2X .0527 THRU ALL IS 2X Ø 316 THRU ALL. ADDED MISSING DIM. 2X 1/4-28 UNF V.5. CH'D DIM SECTION D-D AND E-E WAS Ø .257 THRU ALL IS Ø .3165 - .3125. -113 CH'D HOLE WAS 2X Ø .257 THRU ALL IS Ø .33. -115 CH'D MATERIAL WAS 6061 IS 6063. -251 ADDED DRAWING FOR MODIFIED B/O.	2/2/2015
4	16-0029	-081 MOVED FILLET WELD TO OPPOSITE SIDE. -087 CH'D DIM WAS (.52) IS .520 +.030-.000. -089 CH'D COUNTERSINK WAS V Ø .47 IS V Ø .50. -093 CH'D DIM WAS .49 IS .50 +.01-.00. -099 CH'D WELD SYMBOL FOR -113, -105 & -107 DELETED DIM'S .66 & .81, ADDED DIM'S .59 & .44. -123 ADDED #10-32 HOLE. -151 CH'D DIM WAS 2.66 IS 2.720 +.030-.000. -161 CH'D DIM WAS 2X Ø .266 THRU ALL L J Ø .44 V.63 2X Ø .22 THRU ALL L J Ø .38 V.63. -165 CH'D QTY. WAS 30 IS 28. -203 CH'D P/N WAS NAS 1756-18 IS NAS 1756-16. -207 CH'D MATERIAL WAS S.S. IS STEEL. -243 CH'D P/N WAS 91251A560 IS 91251A349. -257 CH'D P/N WAS 91090A107 IS 91117A201. -261 REPLACED 4X-213'S WITH P/N MCMASTER-CARR #91257A575. -263 -265 & -267 & CRATE ADDED TO BOM.	2/8/2016
5	17-0010	-085A & -085B CH'D DIM WAS .23 IS 2X .23, WAS .41 IS 2X .41. -093 CH'D DIM WAS 2X .60 IS 3X .60, ADDED DIM 2X FULL R. -099 CH'D WELD SYMBOL -105 & 103 WAS FILLET WELD ALL AROUND. .06 IS FILLET WELD ALL AROUND. -101 CH'D DIM WAS (.25 WALL) IS .25 WALL. -191 CH'D B/O PN WAS #917135A235 IS #90566A220.	3/18/2017



SECTION A-A  
SCALE 1 : 2

NOTES:  
1. USED IN ASSY RBW0905G00134-3G.  
2. USED WITH RBW0905G12631-3G.  
3. USED WITH RBW0905G00134-3G-01.

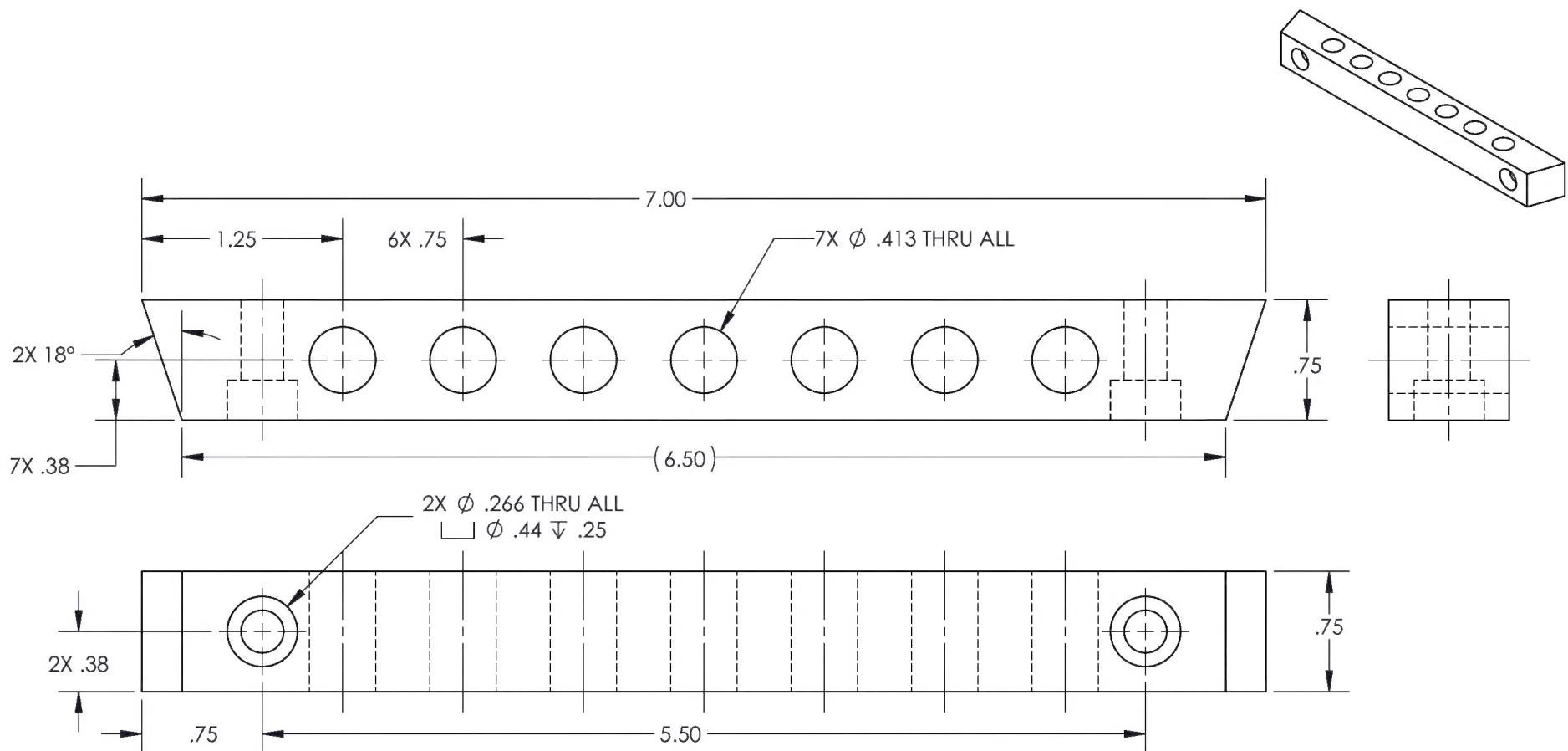
DART AEROSPACE	
TITLE	
TOW DOLLY	
DWG NO. RBW0905G00134-3G-03	
REV	5
MAT'L	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
.XXX ± .005 FRACTIONS ± 1/8	
.XX ± .01 ANGLES ± 5°	
X ± .1 SURFACES = 125	
SPEC	
1. BREAK ALL SHARP EDGES .015 x 45° OR. 015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY:	PERRITT
CHECKED:	MACKOVJAK
OPPS APPR:	ANDERSON
QA APPR:	LINDSAY
APPROVED:	GILBERT
USED ON MODEL	
AGUSTA AW139	
SCALE	1:10
DATE	2/12/2010
SHEET 1 OF 49	

ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.									
										-031	7	TONGUE SHEAR BOLT		DART #RBW0905G01652-3G	1	
										-065	1	TONGUE SHEAR BOLT HOLDER	6061		3	
									X	-071	2	PIN SLIDE WELDMENT			4	
										1	-073	SLIDE BAR	A36/1018/1020 HR		5	
										1	-075	PIN ATTACHMENT	A36/1018/1020 HR		6	
										1	-077	BUSHING	A36/1018/1020 HR		7	
										-079	2	PIN	4140/4142		8	
									X	-081	2	PIN HOUSING WELDMENT			9	
										1	-083	PIN HOUSING	A36/1018/1020 HR		10	
										1	-085A	HOUSING PLATE	A36/1018/1020 HR		11	
										-085B	2	HOUSING PLATE	A36/1018/1020 HR		11	
									X	-087	2	GUIDE WELDMENT			12	
										1	-089	GUIDE PLATE	1018/1020 CR		13	
										2	-091	GUIDE	1018/1020 CR		14	
											-093	2	TRANSFER BAR	6061		15
											-095	1	TIE ROD PIVOT	6061		16
										3	-097	RISER	6061		17	
									X	-099	1	FRAME WELDMENT			18	
										1	-101	FRAME TUBE	6061		19	
										1	-103	FRONT	6061		20	
										1	-105	RIGHT SIDE	6061		21	
										1	-107	LEFT SIDE	6061		22	
										2	-109	BRACE	6061		23	
										4	-111	GUSSET	6061		24	
										1	-113	WHEEL PLATE	6061		25	
										1	-115	CHANNEL	6063		26	
										2	-117	END CAP	6061		27	
									X	-119	1	HANDLE BRACKET WELDMENT			28	
										1	-121	BASE	A36/1018/1020 HR		29	
										1	-123	INSIDE	A36/1018/1020 HR		30	
										1	-125	OUTSIDE	A36/1018/1020 HR		31	
										1	B/O	-127	NUT	STEEL M12X1.5 (MCMASTER-CARR #91415A235)	28	
									X		-129	1	HANDLE WELDMENT			32
										1	-131	END CAP	A36/1018/1020 HR		33	
										2	-133	SIDE PLATE	A36/1018/1020 HR		34	
										1	-135	BACK END	A36/1018/1020 HR		35	
										1	-137	FRONT END	A36/1018/1020 HR		36	
										1	-139	TAB	A36/1018/1020 HR		37	
										1	-141	HANDLE	STEEL		38	
									X	-143	1	FRONT WHEEL BRACKET WELDMENT			39	
										1	-145	FRONT WHEEL BRACKET FRAME	A36/1018/1020 HR		40	
										2	-147	FRONT WHEEL BRACKET GUSSET	A36/1018/1020 HR		41	
									X		-149	2	REAR WHEEL BRACKET WELDMENT			42
										1	-151	REAR WHEEL FRAME	A36/1018/1020 HR		43	
										2	-153	REAR WHEEL VERT. SUPPORT	A36/1018/1020 HR		44	
										1	-157	1	THREADED ROD	1018/1020 CR		45
											-159	2	THREADED ROD	1018/1020 CR		46
											-161	1	PAD	URETHANE 60A 1-1/2 X 1-1/2 X 4-1/8 (MCMASTER CARR #8644K24)	47	
										B/O	-165	28	FLAT WASHER	S.S. Ø1/4 AN960-416	1	
										B/O	-179	11	HEX LOCKNUT	STEEL 1/4-28 UNF (MCMASTER-CARR #95615A130)	1	
										B/O	-189	2	LOCK NUT	STEEL 3/8-24 UNF (MCMASTER-CARR #95307A700)	1	
										B/O	-191	7	THIN NYLON INSERT LOCK NUT	STEEL 3/8-24 UNF (MCMASTER-CARR #90566A220)	1	
										B/O	-193	4	HEX HEAD CAP SCREW	S.S. 1/4-28 UNF X 1/2 AN4-4A	1	
										B/O	-195	2	HEX HEAD CAP SCREW	S.S. 1/4-28 UNF X 4 AN4-40A	1	
										B/O	-197	3	LOCK NUT	STEEL 1/4-28 UNF (MCMASTER-CARR #95307A500)	1	

ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.								
										-199	1	BALL LOCK PIN	S.S.	Ø1/4 X 1 (MCMASTER-CARR 92384A034)	1
									B/O	-201	1	LANYARD, LOOP TO LOOP	COATED STEEL	Ø1/16 WIRE X 6 (CARR LANE #CL-2-C)	1
									B/O	-203	1	REMOVE BEFORE FLIGHT	NYLON	NAS 1756-16	1
									B/O	-207	1	HEX HEAD CAP SCREW	STEEL	1/4-28 UNF X 1-1/4 AN4-12A	1
									B/O	-211	4	FLAT HEAD SCREW	STEEL	1/4-28 UNF X 1/2 (MCMASTER-CARR #90273A557)	1
									B/O	-213	4	HEX HEAD CAP SCREW	STEEL	1/4-28 UNF X 3-1/4 (MCMASTER-CARR #91257A574)	1
									B/O	-215	2	COMPRESSION SPRING	SPRING STEEL	OD Ø3/4 X 2 CENTURY SPRING #10226	1
									B/O	-217	2	ROLL PIN	STEEL	Ø1/8 X 3/4 (MCMASTER-CARR #90692A698)	1
									B/O	-219	1	LOCKING INDEXING PLUNGER	J.W. WINCO #GO2/AK		1
									B/O	-221	2	HEX HEAD CAP SCREW	S.S.	3/8-24 UNF X 2-3/8 AN6-23A	1
									B/O	-223	2	HEX HEAD CAP SCREW	S.S.	1/2-20 UNF X 2-7/8 AN8-27A	1
									B/O	-225	4	FLAT WASHER	STEEL	Ø3/8 AN960-616	1
									B/O	-227	6	ROD END	STEEL	(MCMASTER	

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REV		ECR		DESCRIPTION		DATE	INITIAL	APPROVED
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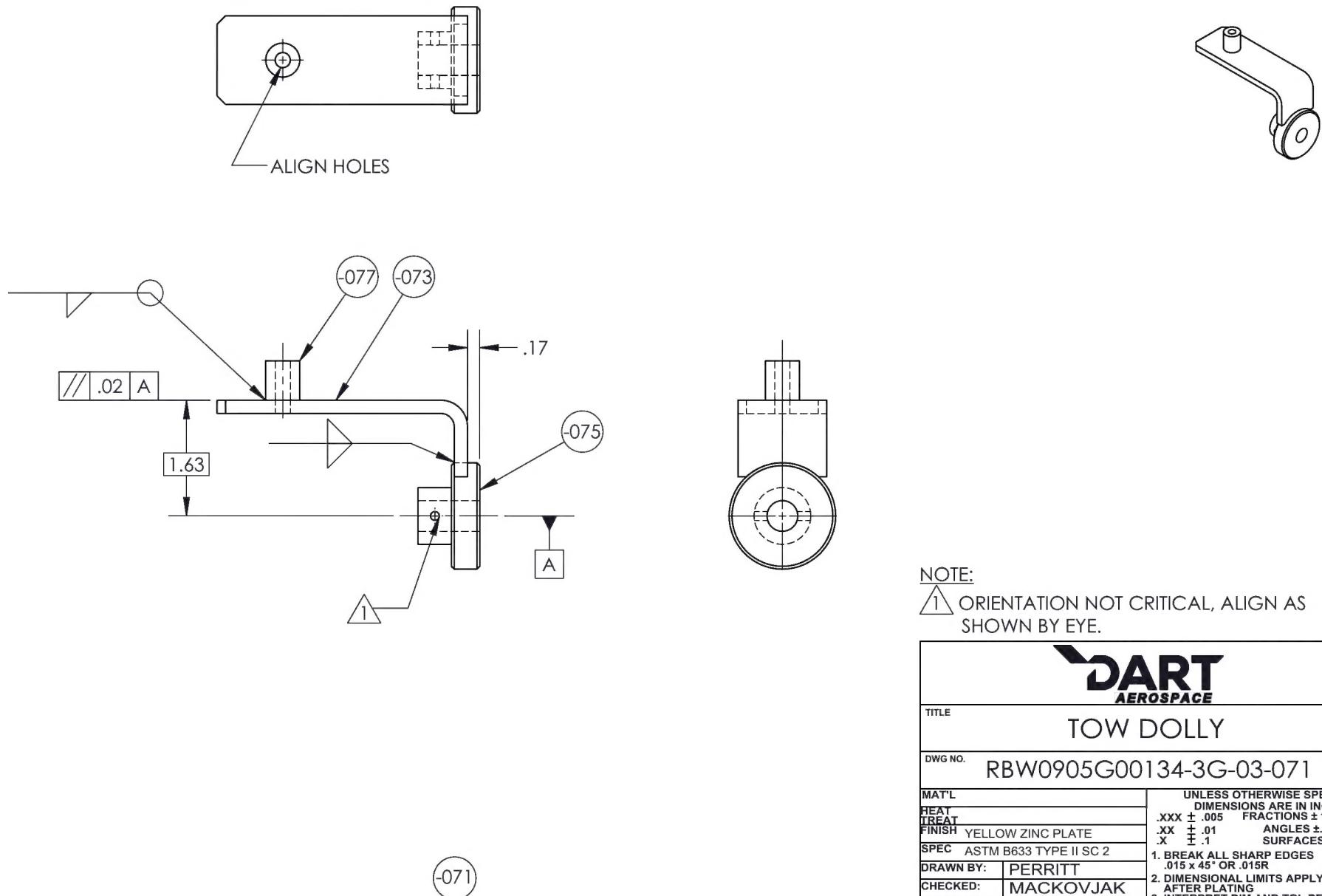


TONGUE SHEAR BOLT HOLDER

	
TITLE	
TOW DOLLY	
DWG NO.	RBW0905G00134-3G-03-065
REV	5
MAT'L	6061
HEAT	UNLESS OTHERWISE SPECIFIED
TREAT	DIMENSIONS ARE IN INCHES
FINISH	.XXX ± .005 FRACTIONS ± 1/8
SPEC	.XX ± .01 ANGLES ± 5°
MIL-A-8625F, TYPE II, CLASS I	X ± .1 SURFACES = 125 ✓
DRAWN BY:	CLOUGH
CHECKED:	MACKOVJAK
OPPS APPR:	ANDERSON
QA APPR:	LINDSAY
APPROVED:	GILBERT
USED ON MODEL	
AGUSTA AW139	
SCALE	1:1
DATE	11/19/2012
SHEET 3 OF 49	

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REV	ECR	REVISIONS	DESCRIPTION	DATE	INITIAL	APPROVED
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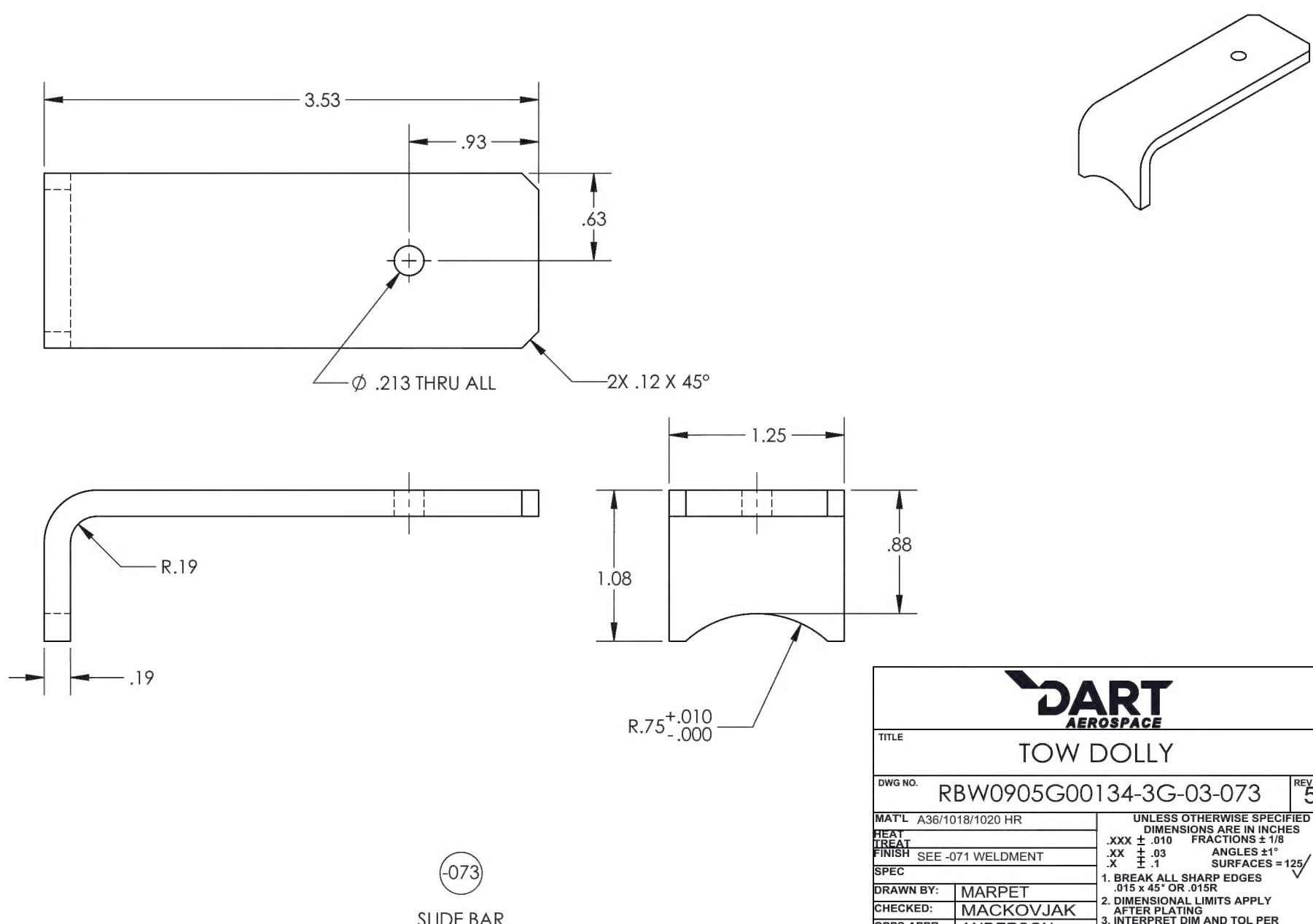


NOTE:  
 1 ORIENTATION NOT CRITICAL, ALIGN AS SHOWN BY EYE.

DART AEROSPACE	
TITLE	
TOW DOLLY	
DWG NO. RBW0905G00134-3G-03-071	
REV 5	
MAT'L	
HEAT	
TREAT	
FINISH YELLOW ZINC PLATE	
SPEC ASTM B633 TYPE II SC 2	
DRAWN BY:	PERRITT
CHECKED:	MACKOVJAK
OPPS APPR:	ANDERSON
QA APPR:	LINDSAY
APPROVED:	GILBERT
UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
.XXX ± .005 FRACTIONS ± 1/8	
.XX ± .01 ANGLES ± 5°	
X ± .1 SURFACES = 125 ✓	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
USED ON MODEL	
AGUSTA AW139	
SCALE	1:2
DATE	2/12/2010
SHEET 4 OF 49	

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REV	ECR	REVISIONS		
		DESCRIPTION	DATE	INITIAL
				APPROVED

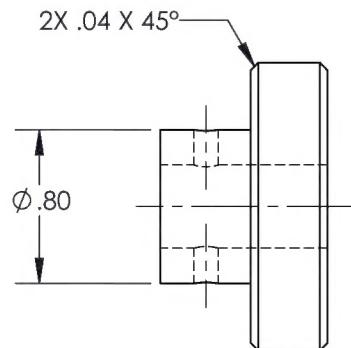
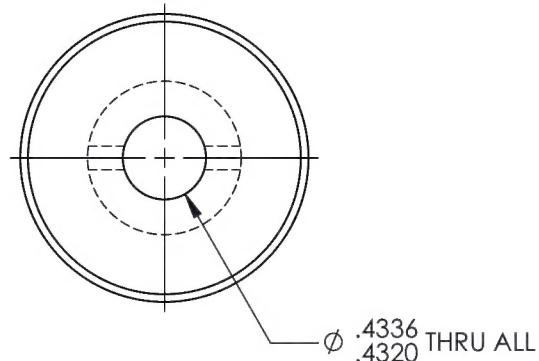
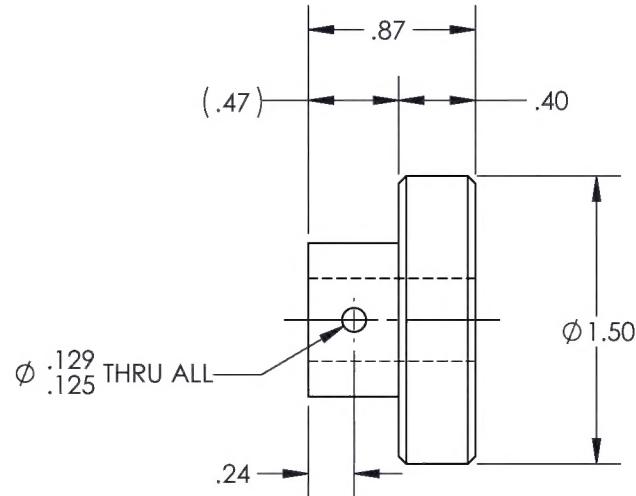


SLIDE BAR

DART	
AEROSPACE	
TITLE	
TOW DOLLY	
DWG NO. RBW0905G00134-3G-03-073	
REV 5	
UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
.XXX ± .010 FRACTIONS ± 1/8	
.XX ± .03 ANGLES ± 1°	
.X ± .1 SURFACES = 125 ✓	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY: MARPET	
CHECKED: MACKOVJAK	
OPPS APPR: ANDERSON	
QA APPR: LINDSAY USED ON MODEL	
APPROVED: GILBERT AGUSTA AW139	
SCALE	1:1
DATE	1/31/2013
SHEET 5 OF 49	

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REV	ECR	REVISIONS	DESCRIPTION	DATE	INITIAL	APPROVED
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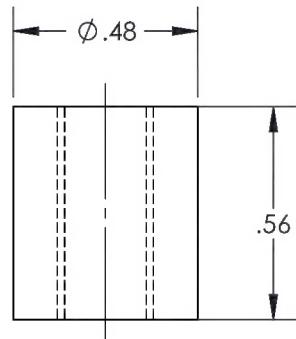
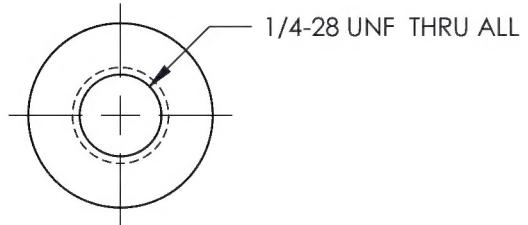
-075

PIN ATTACHMENT

DART AEROSPACE	
TITLE	
TOW DOLLY	
DWG NO. RBW0905G00134-3G-03-075 REV 5	
MAT'L A36/1018/1020 HR UNLESS OTHERWISE SPECIFIED	
HEAT DIMENSIONS ARE IN INCHES	
TREAT .XXX ± .005 FRACTIONS ± 1/8	
FINISH SEE -071 WELDMENT .XX ± .01 ANGLES ± 5°	
SPEC .X ± .1 SURFACES = 125 ✓	
DRAWN BY: GILBERT	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
CHECKED: MACKOVJAK	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
OPPS APPR: ANDERSON	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
QA APPR: LINDSAY	USED ON MODEL
APPROVED: GILBERT	AGUSTA AW139
SCALE 1:1	DATE 11/20/2012
SHEET 6 OF 49	

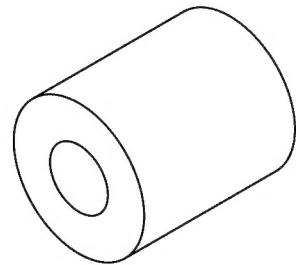
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REV		ECR		REVISIONS		
				DESCRIPTION		DATE
				INITIAL	APPROVED	



-077

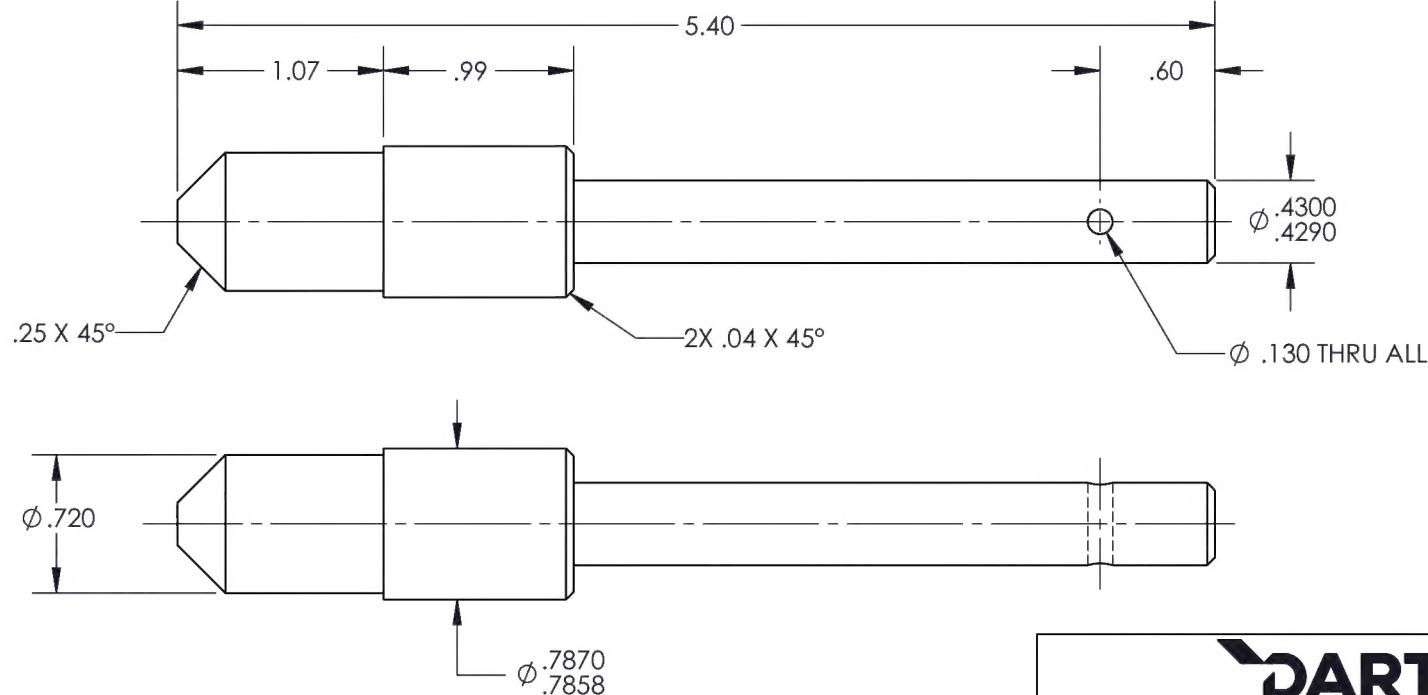
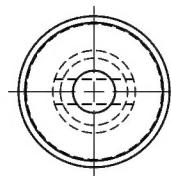
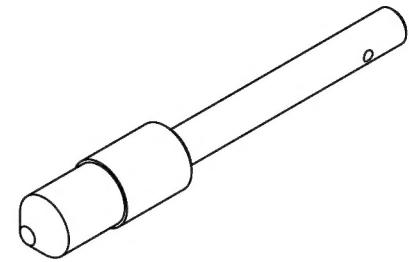
BUSHING



DART AEROSPACE	
TITLE	
TOW DOLLY	
DWG NO. RBW0905G00134-3G-03-077	
REV 5	
MAT'L A36/1018/1020 HR	
UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
.XXX ± .005 FRACTIONS ± 1/8	
.XX ± .01 ANGLES ± 5°	
.X ± .1 SURFACES = 125 ✓	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY: CLOUGH	
CHECKED: MACKOVJAK	
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	
USED ON MODEL	
APPROVED: GILBERT	
AGUSTA AW139	
SCALE 2:1	DATE 11/19/2012
SHEET 7 OF 49	

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REV	ECR	REVISIONS	DESCRIPTION	DATE	INITIAL	APPROVED
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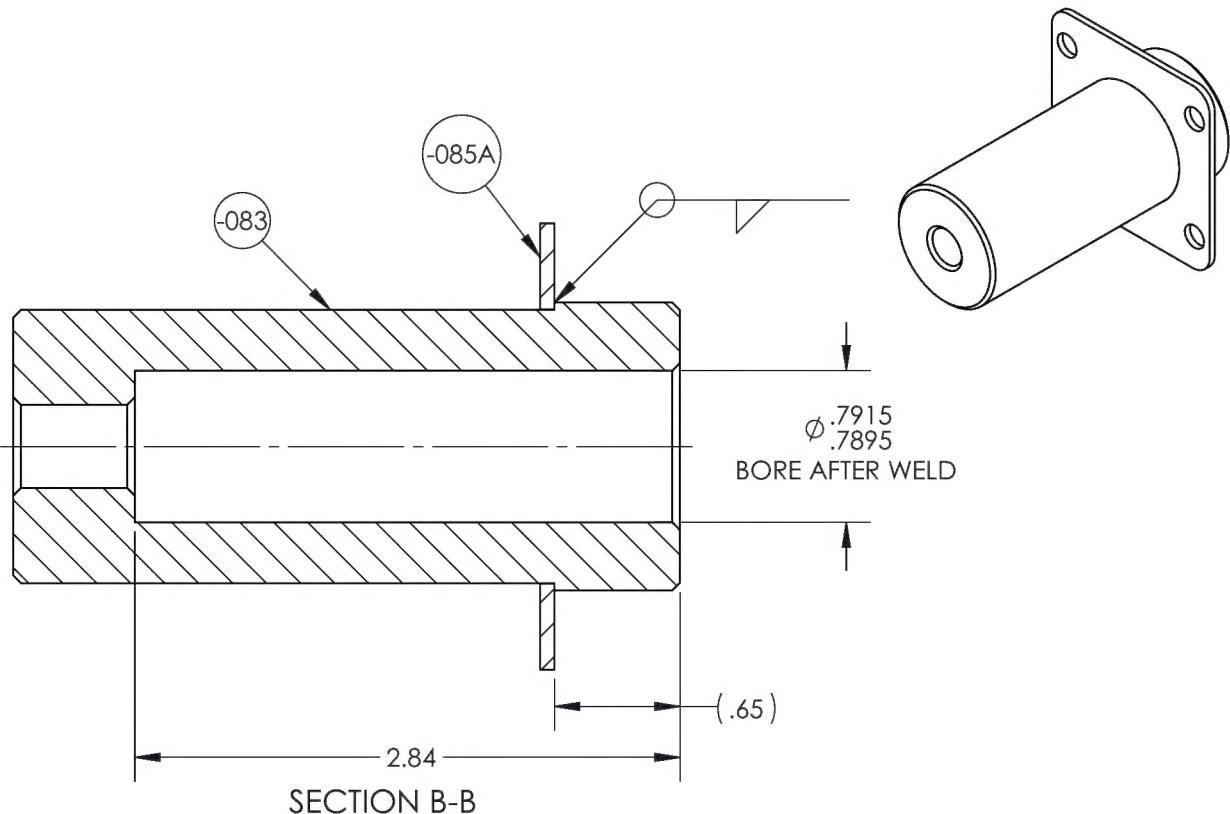
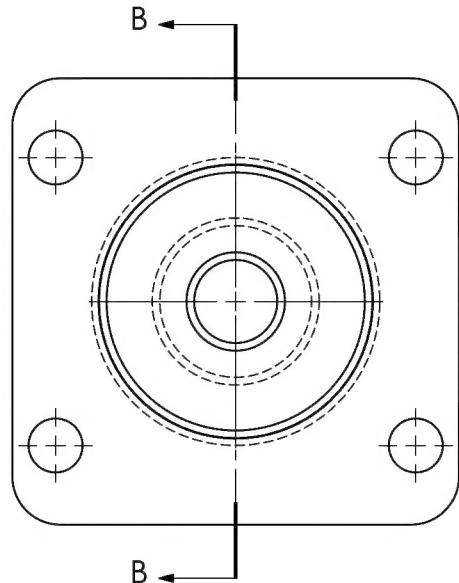
-079

PIN

<b>DART</b> AEROSPACE	
TITLE	
TOW DOLLY	
DWG NO. RBW0905G00134-3G-03-079	
REV 5	
<p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES HEAT TREAT RC 40-45 FINISH YELLOW ZINC PLATE SPEC ASTM B633 TYPE II SC 2 DRAWN BY: GILBERT CHECKED: MACKOVJAK OPPS APPR: ANDERSON QA APPR: LINDSAY APPROVED: GILBERT</p> <p>ANGLES <math>\pm 5^\circ</math> SURFACES = 125 .005 FRACTIONS <math>\pm 1/8</math> .01 ANGLES <math>\pm 5^\circ</math> .015 SURFACES = 125 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009</p>	
SCALE 1:1	DATE 11/28/2012
SHEET 8 OF 49	

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REV			ECR			DESCRIPTION			DATE			INITIAL			APPROVED		
4	16-0029		-081 MOVED FILLET WELD TO OPPOSITE SIDE.						2/8/2016			RJC			JAG		



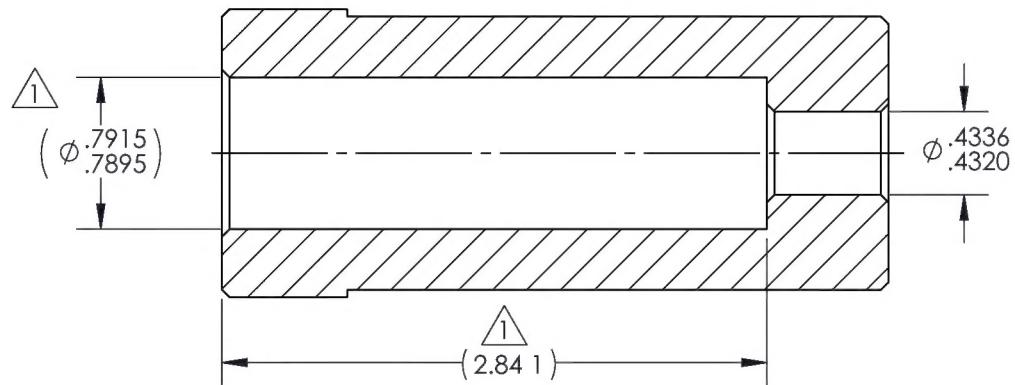
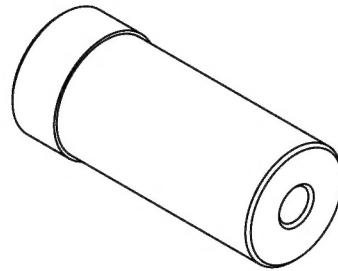
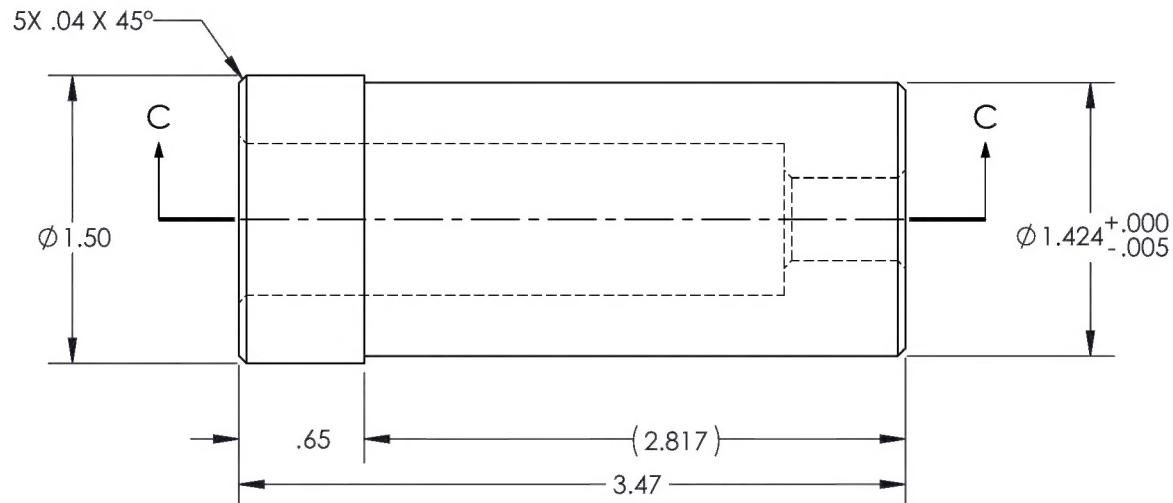
-081

PIN HOUSING WELDMENT

DART AEROSPACE	
TITLE	
TOW DOLLY	
DWG NO. RBW0905G00134-3G-03-081	
REV 5	
MAT'L	
HEAT	
TREAT	
FINISH YELLOW ZINC PLATE	
SPEC ASTM B633 TYPE II SC 2	
DRAWN BY: MARPET	
CHECKED: MACKOVJAK	
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	
APPROVED: GILBERT	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8 .XX ± .03 ANGLES ± 1° X ± .1 SURFACES = 125	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
USED ON MODEL	
AGUSTA AW139	
SCALE 1:1	DATE 1/30/2013
SHEET 9 OF 49	

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REV	ECR	REVISIONS		
		DESCRIPTION	DATE	INITIAL
				APPROVED



SECTION C-C

-083

PIN HOUSING

NOTE:

⚠ AFTER WELDING SEE -81 FINISH BORE TO ACHIEVE DIMENSION

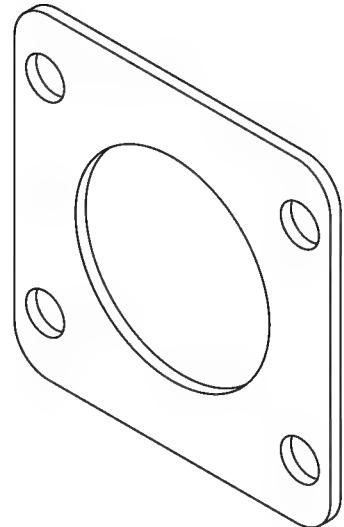
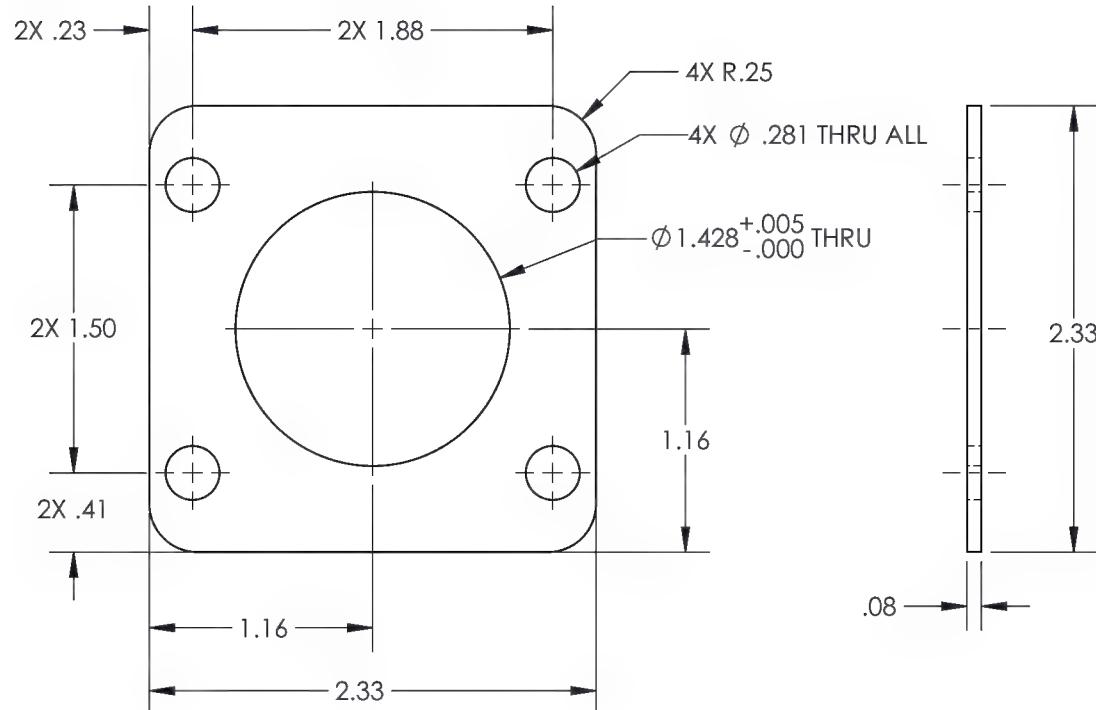
**DART**  
AEROSPACE

TOW DOLLY

DWG NO.	RBW0905G00134-3G-03-083	REV
MAT'L	A36/1018/1020 HR	5
HEAT		UNLESS OTHERWISE SPECIFIED
TREAT		DIMENSIONS ARE IN INCHES
FINISH SEE -81 WELDMENT		.XXX ± .005 FRACTIONS ± 1/8
SPEC		.XX ± .01 ANGLES ± 5°
DRAWN BY:		X ± .1 SURFACES = 125 ✓
CHECKED:		1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
OPPS APPR:		2. DIMENSIONAL LIMITS APPLY AFTER PLATING
QA APPR:		3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
APPROVED:		USED ON MODEL
GILBERT		AGUSTA AW139
SCALE	1:1	DATE 11/20/2012
		SHEET 10 OF 49

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
5	17-0010	-085A & -085B CH'D DIM WAS .23 IS 2X .23, WAS .41 IS 2X .41.	3/18/2017	RJC	JAG



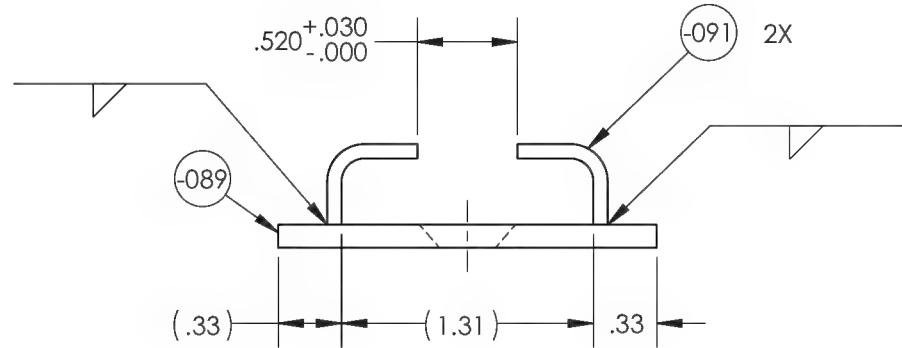
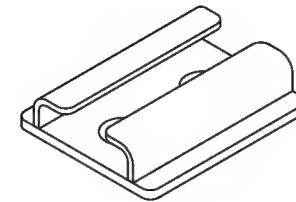
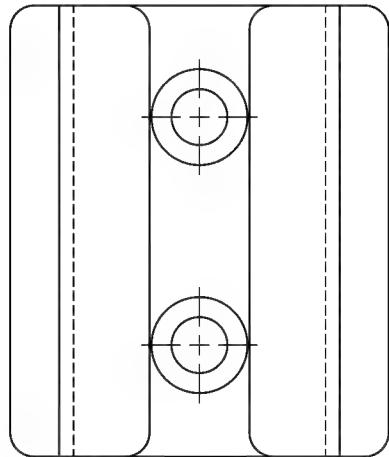
-085A      -085B  
HOUSING PLATE

-085A	2	NO FINISH, SEE -81 WELDMENT
-085B	2	YELLOW ZINC .0002 - .0004 FINISH

TITLE		DART AEROSPACE	
TOW DOLLY			
DWG NO.	RBW0905G00134-3G-03-085B	REV	5
MAT'L A36/1018/1020 HR		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
HEAT		.XXX $\pm$ .010   FRACTIONS $\pm$ 1/8	
TREAT		.XX $\pm$ .03   ANGLES $\pm$ 1°	
FINISH SEE TABLE		X $\pm$ .1   SURFACES = 125	
SPEC		1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
DRAWN BY:	CLOUGH	2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
CHECKED:	MACKOVJAK	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
OPPS APPR:	ANDERSON	USED ON MODEL	
QA APPR:	LINDSAY		
APPROVED:	GILBERT	AGUSTA AW139	
SCALE	1:1	DATE	11/19/2012
			SHEET 11 OF 49

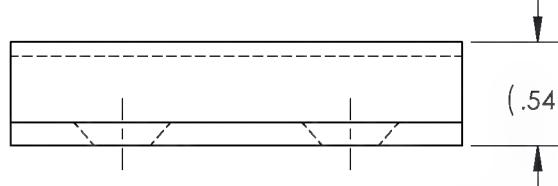
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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
4	16-0029	-087 CH'D DIM WAS (.52) IS .520 +.030-.000.	2/9/2016	RJC	JAG



-087

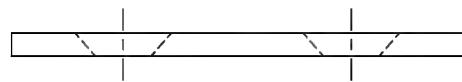
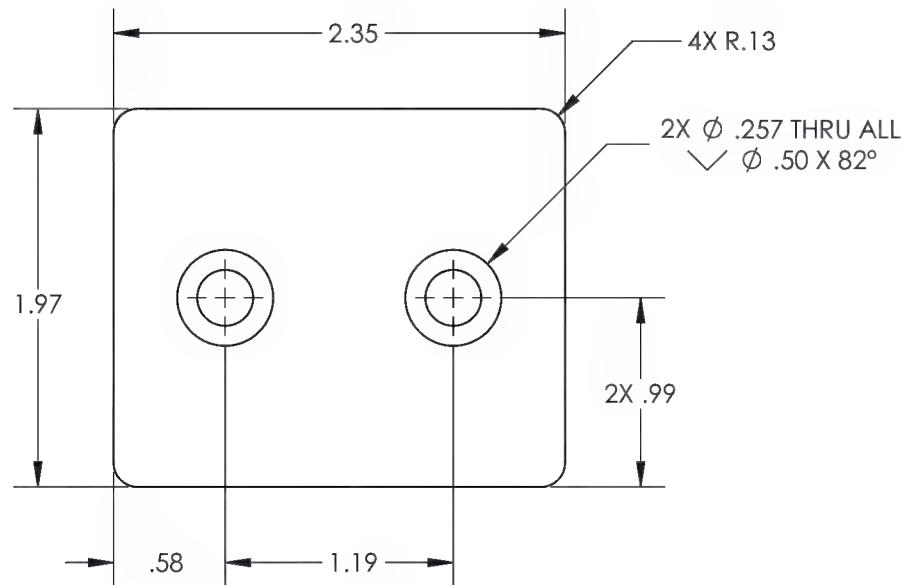
GUIDE WELDMENT



<b>DART</b> AEROSPACE	
TITLE	
DWG NO. RBW0905G00134-3G-03-087	
REV 5	
MAT'L	
HEAT	
TREAT	
FINISH YELLOW ZINC PLATE	
SPEC ASTM B633 TYPE II SC 2	
DRAWN BY:	MARPET
CHECKED:	MACKOVJAK
OPPS APPR:	ANDERSON
QA APPR:	LINDSAY
APPROVED:	GILBERT
UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
.XXX ± .010 FRACTIONS ± 1/8	
.XX ± .03 ANGLES ± 1°	
.X ± .1 SURFACES = 125 ✓	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
USED ON MODEL	
AGUSTA AW139	
SCALE 1:1	DATE 1/30/2013
SHEET 12 OF 49	

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REV			ECR			DESCRIPTION			REVISIONS		
4	16-0029	-089 CH'D COUNTERSINK WAS ✓ Ø.47 IS ✓ Ø.50.						DATE	INITIAL	APPROVED	
								2/9/2016	RJC	JAG	



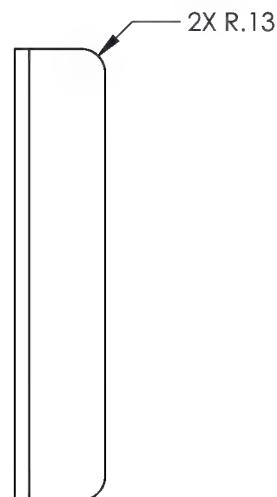
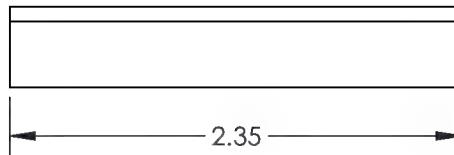
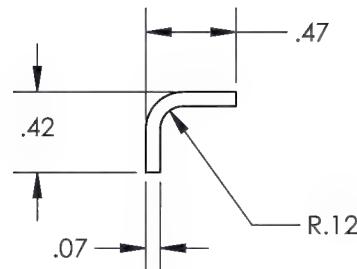
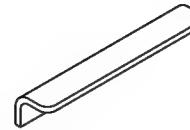
-089

GUIDE PLATE

DART AEROSPACE	
TITLE	
TOW DOLLY	
DWG NO. RBW0905G00134-3G-03-089	
REV 5	
UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
.XXX ± .010 FRACTIONS ± 1/8	
.XX ± .03 ANGLES ± 1°	
.X ± .1 SURFACES = 125 ✓	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY: CLOUGH	
CHECKED: MACKOVJAK	
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	
APPROVED: GILBERT	
USED ON MODEL AGUSTA AW139	
SCALE	1:1
DATE	11/19/2012
SHEET 13 OF 49	

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REV		ECR		DESCRIPTION		DATE	INITIAL	APPROVED
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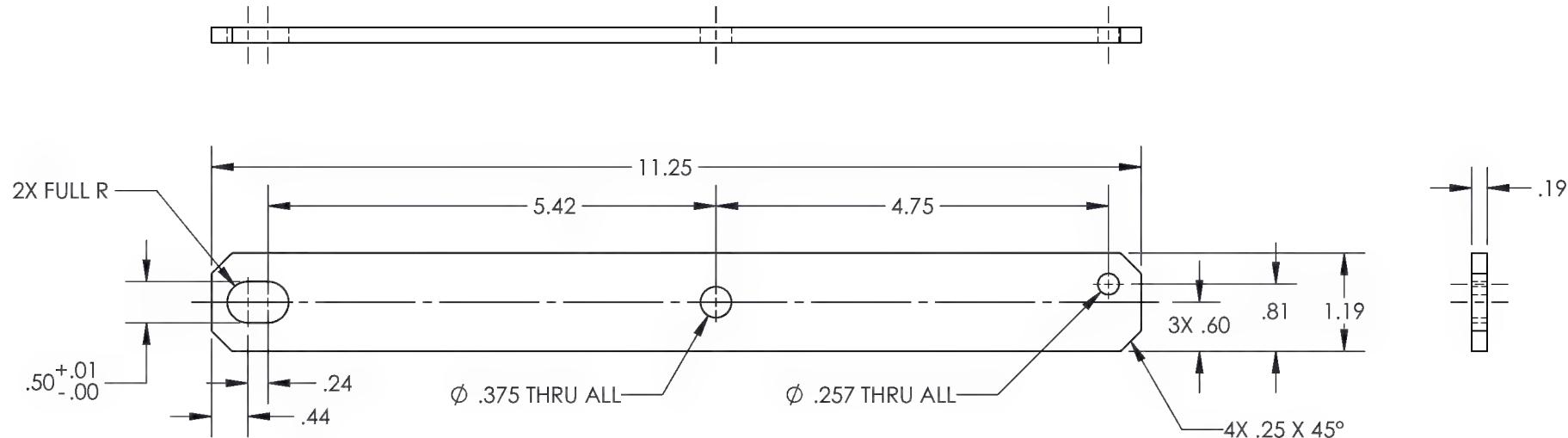
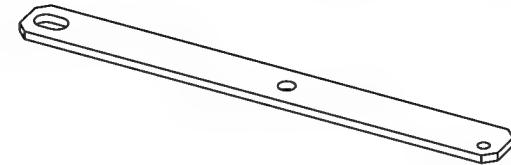
-091

GUIDE

DART AEROSPACE	
TITLE	
TOW DOLLY	
DWG NO. RBW0905G00134-3G-03-091	
REV 5	
MAT'L 1018/1020 CR	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
.XXX ± .010 FRACTIONS ± 1/8	
.XX ± .03 ANGLES ± 1°	
.X ± .1 SURFACES = 125	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY: CLOUGH	
CHECKED: MACKOVJAK	
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	
APPROVED: GILBERT	
USED ON MODEL	
AGUSTA AW139	
SCALE 1:1	DATE 11/19/2012
SHEET 14 OF 49	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
4	16-0029	-093 CH'D DIM WAS .49 IS .50 +.01-.00.	2/9/2016	RJC	JAG
5	17-0010	-093 CH'D DIM WAS 2X .60 IS 3X .60, ADDED DIM 2X FULL R.	3/18/2017	RJC	JAG



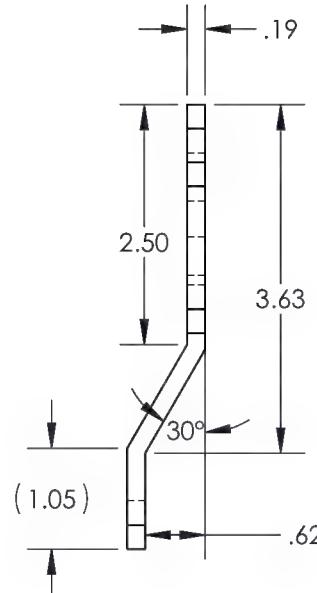
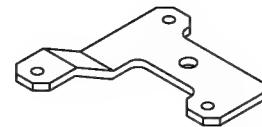
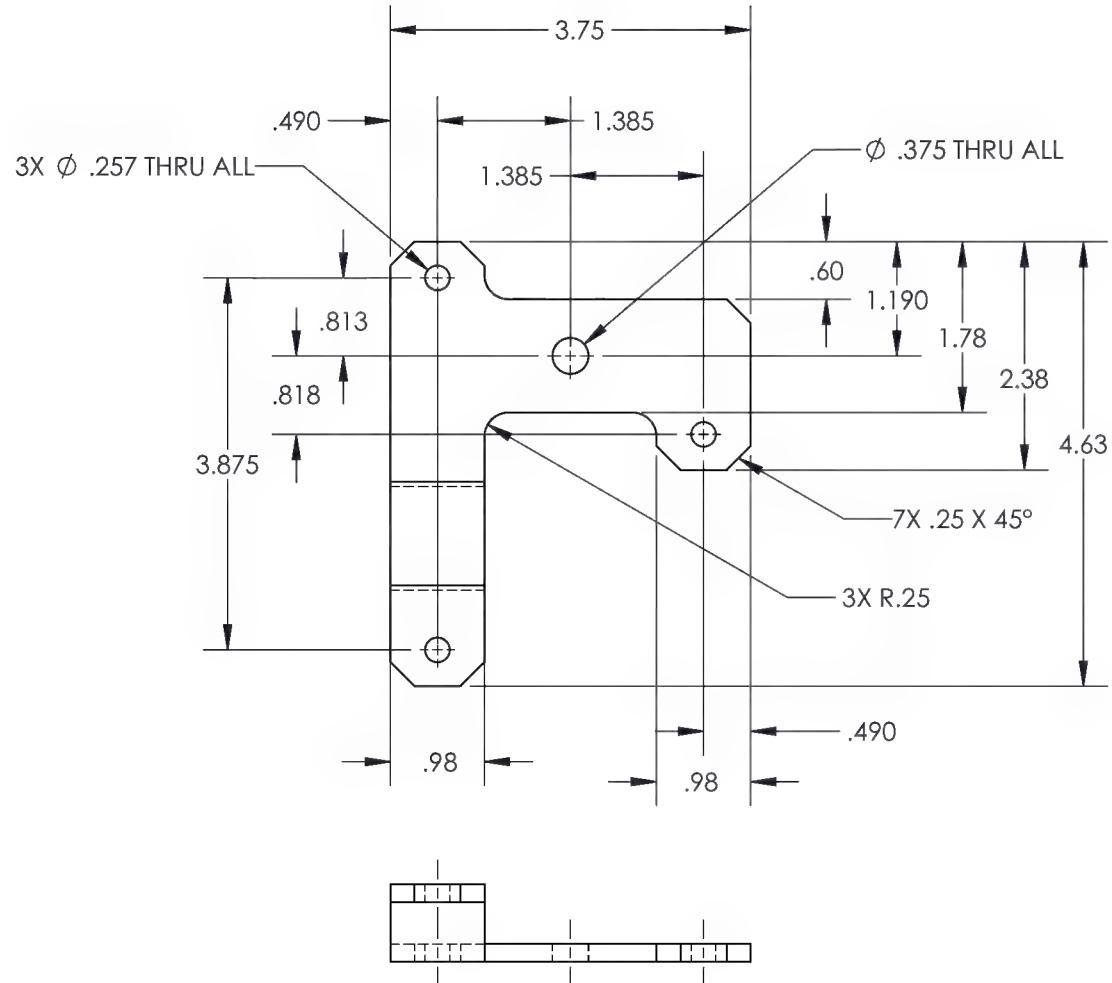
-093

TRANSFER BAR

DART AEROSPACE	
TITLE	
TOW DOLLY	
DWG NO. RBW0905G00134-3G-03-093	
REV 5	
UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
.000 ± .010 FRACTIONS ± 1/8	
.000 ± .03 ANGLES ± 1°	
.000 ± .1 SURFACES = 125 ✓	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
MATERIAL: 6061	
HEAT TREAT	
FINISH: POWDER COAT YELLOW	
SPEC: FED #13538	
DRAWN BY:	MARPET
CHECKED:	MACKOVJAK
OPPS APPR:	ANDERSON
QA APPR:	LINDSAY
APPROVED:	GILBERT
USED ON MODEL	
AGUSTA AW139	
SCALE	1:2
DATE	1/24/2013
SHEET 15 OF 49	

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REVISIONS						
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED	



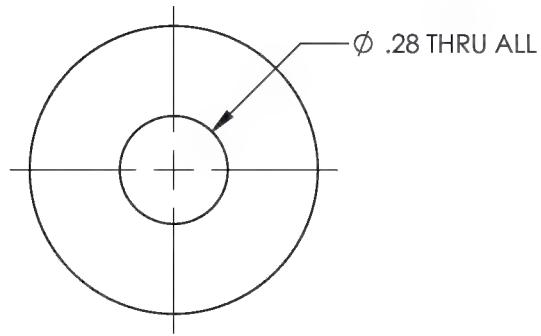
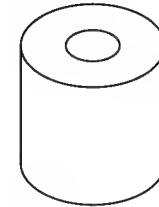
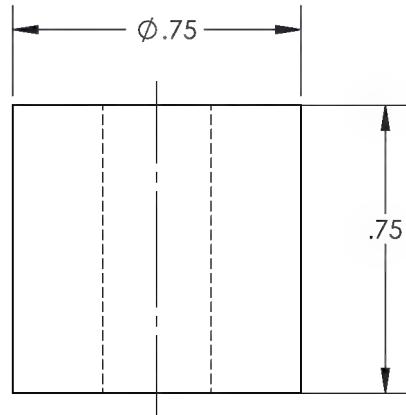
## TIE ROD PIVOT



			
<b>TITLE</b> <b>TOW DOLLY</b>			
<b>DWG NO.</b> RBW0905G00134-3G-03-095 <b>REV</b> 5			
<b>MAT'L</b> 6061		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
<b>HEAT</b> <b>TREAT</b>		$.XXX \pm .010$ FRACTIONS $\pm 1/8$	
<b>FINISH</b> POWDER COAT YELLOW		$.XX \pm .03$ ANGLES $\pm 1^\circ$	
<b>SPEC</b> FED #13538		$X \pm .1$ SURFACES = 125	
<b>DRAWN BY:</b> MARPET		1. BREAK ALL SHARP EDGES $.015 \times .45$ OR .015R	
<b>CHECKED:</b> MACKOVJAK		2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
<b>OPPS APPR:</b> ANDERSON		3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
<b>QA APPR:</b> LINDSAY		USED ON MODEL	
<b>APPROVED:</b> GILBERT		AGUSTA AW139	
<b>SCALE</b>	1:2	<b>DATE</b>	1/28/2013
		<b>SHEET 16 OF 49</b>	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3	14-0228	-097 CH'D CENTER HOLE WAS 1/4-28 UNF THRU IS $\varnothing$ .28 THRU ALL.	2/2/2015	RJC	JAG



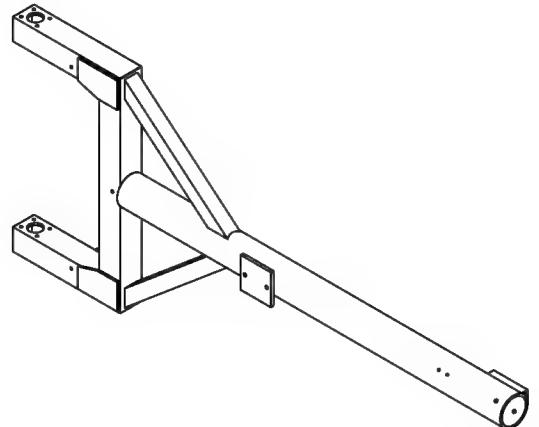
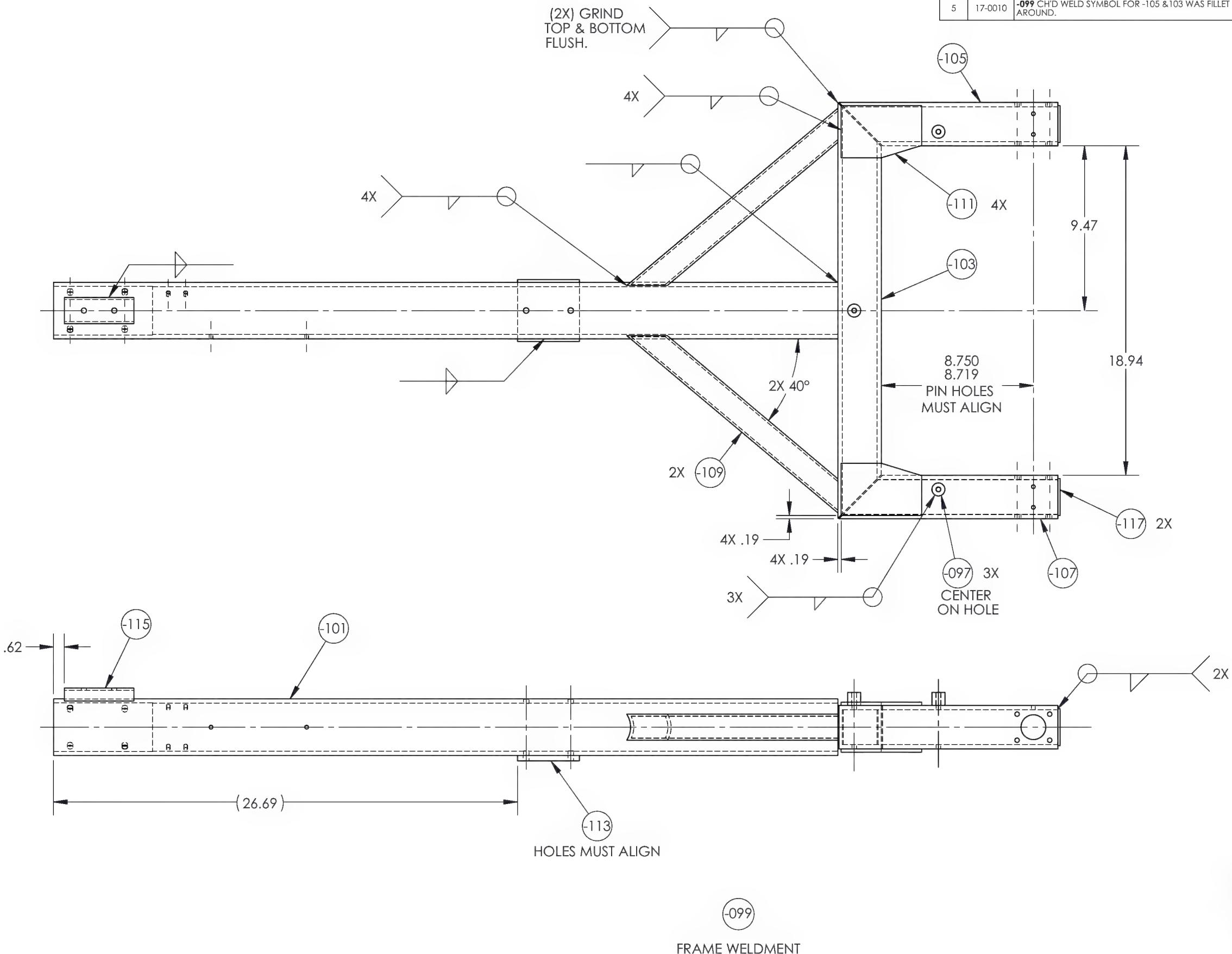
-097

RISER

DART AEROSPACE	
TITLE	
DWG NO. RBW0905G00134-3G-03-097	
REV 5	
UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
.XXX $\pm$ .005 FRACTIONS $\pm$ 1/8	
.XX $\pm$ .01 ANGLES $\pm$ 5°	
.X $\pm$ .1 SURFACES = 125 ✓	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
MAT'L 6061	
HEAT	
TREAT	
FINISH SEE -099 WELDMENT	
SPEC	
DRAWN BY:	MARPET
CHECKED:	MACKOVJAK
OPPS APPR:	ANDERSON
QA APPR:	LINDSAY
APPROVED:	GILBERT
USED ON MODEL	
AGUSTA AW139	
SCALE	2:1
DATE	1/24/2013
SHEET 17 OF 49	

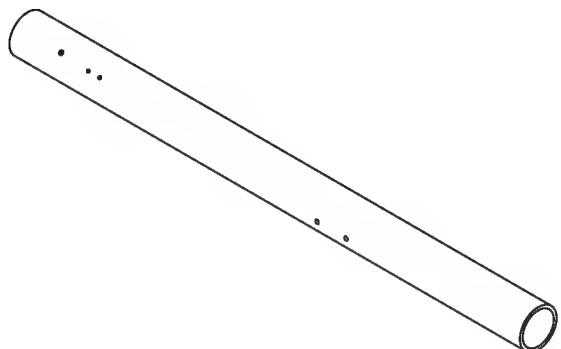
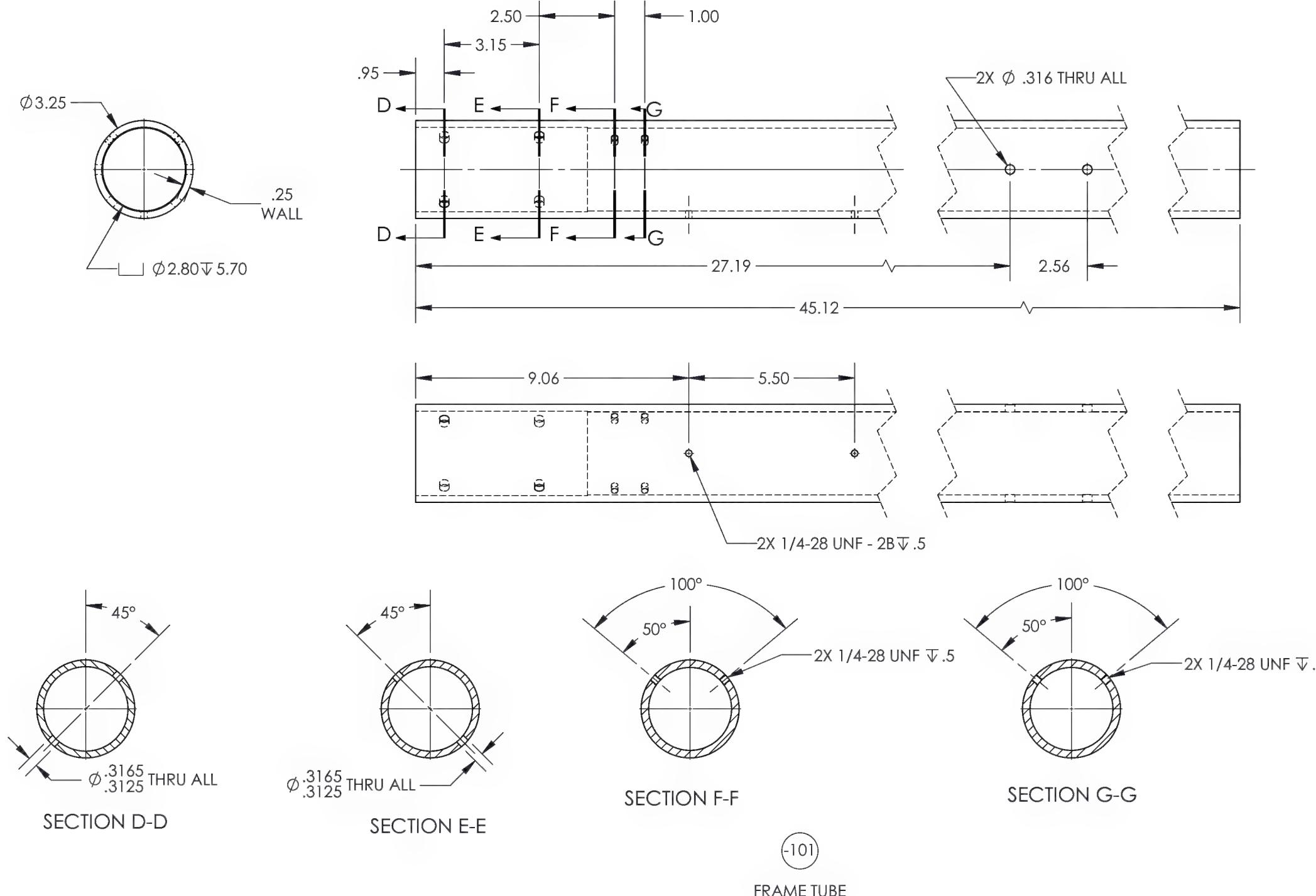
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REVISIONS		
REV	ECR	DESCRIPTION
4	16-0029	-099 CH'D WELD SYMBOL FOR -113.
5	17-0010	-099 CH'D WELD SYMBOL FOR -105 & 103 WAS FILLET WELD ALL AROUND .06 IS FILLET WELD ALL AROUND.



DART AEROSPACE	
TITLE	
TOW DOLLY	
DWG NO. RBW0905G00134-3G-03-099 REV 5	
MATL UNLESS OTHERWISE SPECIFIED HEAT DIMENSIONS ARE IN INCHES TREAT FRACTIONS $\pm 1/8$ FINISH .015 x 45° OR. 015R POWDER COAT YELLOW SURFACES $\pm 1/16$ SPEC FED #13538	
DRAWN BY: PERRITT CHECKED: MACKOVJAK OPPS APPR: ANDERSON QA APPR: LINDSAY APPROVED: GILBERT	
1. BREAK ALL SHARP EDGES .015 x 45° OR. 015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009 USED ON MODEL AGUSTA AW139	
SCALE	1:6
DATE	2/12/2013
SHEET 18 OF 49	

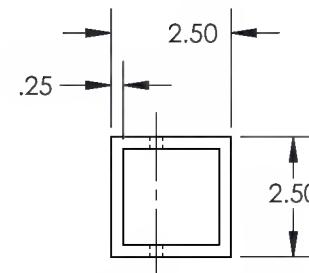
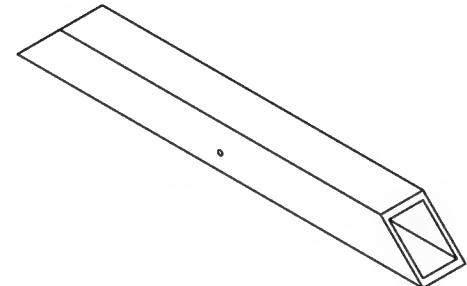
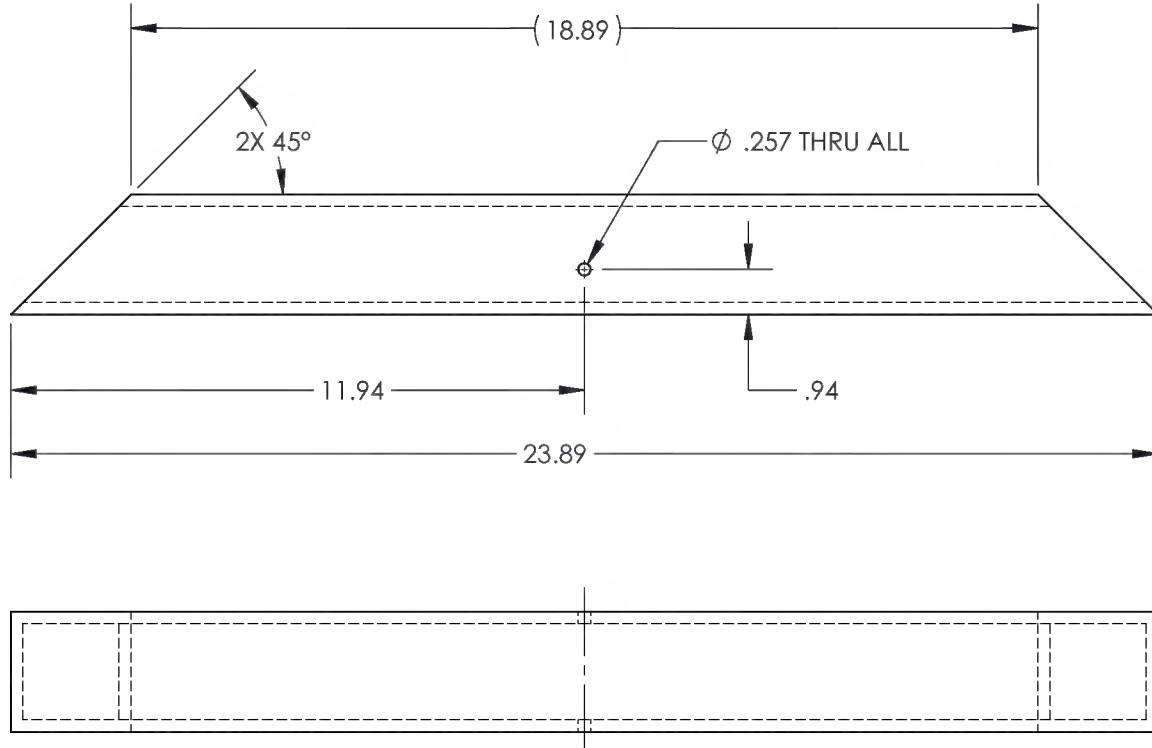
REVISIONS		
REV	ECR	DESCRIPTION
3	14-0228	-101 CH'D DIMENSION WAS 2X Ø.257 THRU ALL IS 2X Ø.316 THRU ALL. ADDED MISSING DIM. 2X 1/4-28 UNF V.5. CH'D DIM SECTION D-D AND E-E WAS Ø.257 THRU ALL IS Ø.3165-.3125.
5	17-0010	-101 CH'D DIM WAS (.25 WALL) IS .25 WALL.



DART AEROSPACE	
TITLE	
TOW DOLLY	
DWG NO. RBW0905G00134-3G-03-101	
REV 5	
MATERIAL 6061 UNLESS OTHERWISE SPECIFIED	
HEAT TREAT FRACTIONS $\pm 1/8$	
FINISH SEE -099 WELDMENT $\pm .005$	
SPEC SURFACES = 125	
DRAWN BY: PERRITT $\pm .01$	
CHECKED: MACKOVJAK $\pm .1$	
OPPS APPR: ANDERSON $\pm .05$	
QA APPR: LINDSAY $\pm .05$	
APPROVED: GILBERT $\pm .05$	
SCALE 1:4	DATE 2/12/2010
SHEET 19 OF 49	

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REV	ECR	REVISIONS		
		DESCRIPTION	DATE	INITIAL
				APPROVED



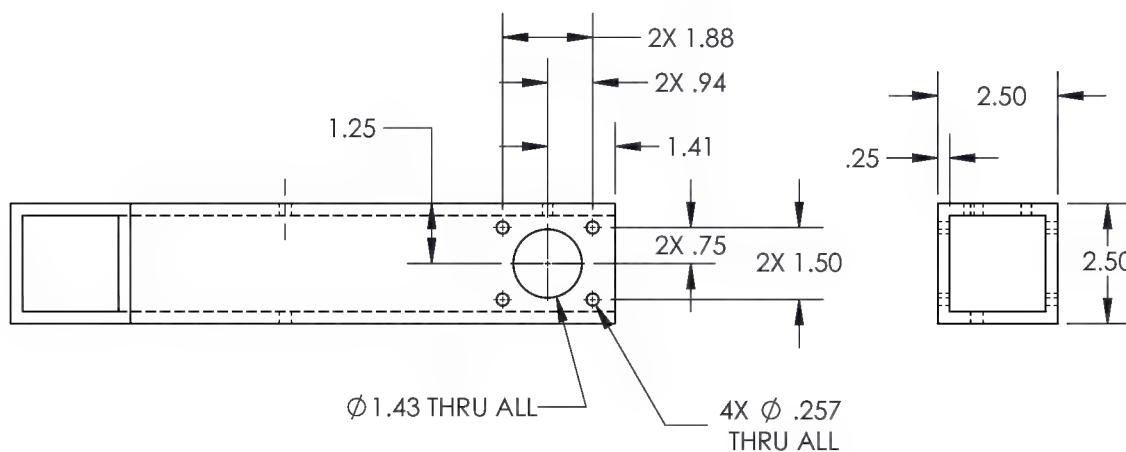
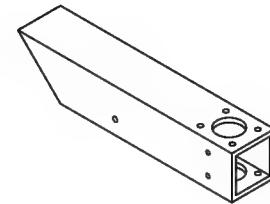
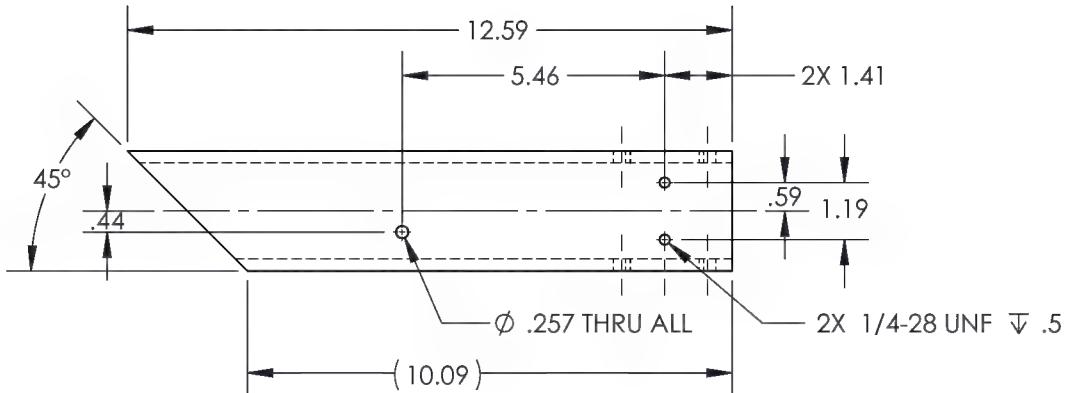
-103

FRONT

TITLE		DART	
		AEROSPACE	
TOW DOLLY			
DWG NO.		REV	
RBWO905G00134-3G-03-103		5	
MAT'L 6061		UNLESS OTHERWISE SPECIFIED	
HEAT		DIMENSIONS ARE IN INCHES	
TREAT		.XXX ± .005 FRACTIONS ± 1/8	
FINISH SEE -099 WELDMENT		.XX ± .01 ANGLES ± 5°	
SPEC		.X ± .1 SURFACES = 125 ✓	
DRAWN BY: MARPET		1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
CHECKED: MACKOVJAK		2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
OPPS APPR: ANDERSON		3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
QA APPR: LINDSAY		USED ON MODEL	
APPROVED: GILBERT		AGUSTA AW139	
SCALE	1:4	DATE	1/24/2013
SHEET 20 OF 49			

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REV			ECR			DESCRIPTION			DATE			INITIAL			APPROVED		
4	16-0029		-105 DELETED DIM'S .66 & .81, ADDED DIM'S .59 & .44.						2/9/2016			RJC			JAG		



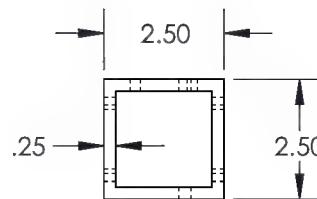
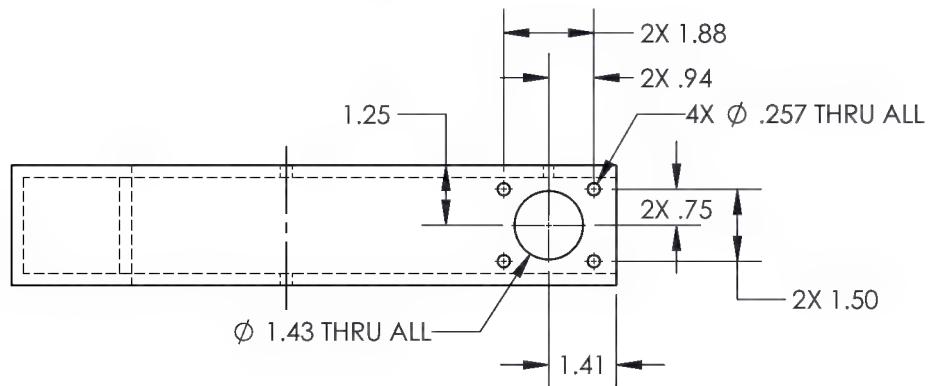
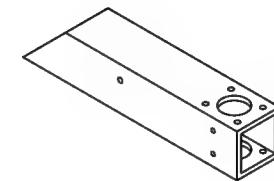
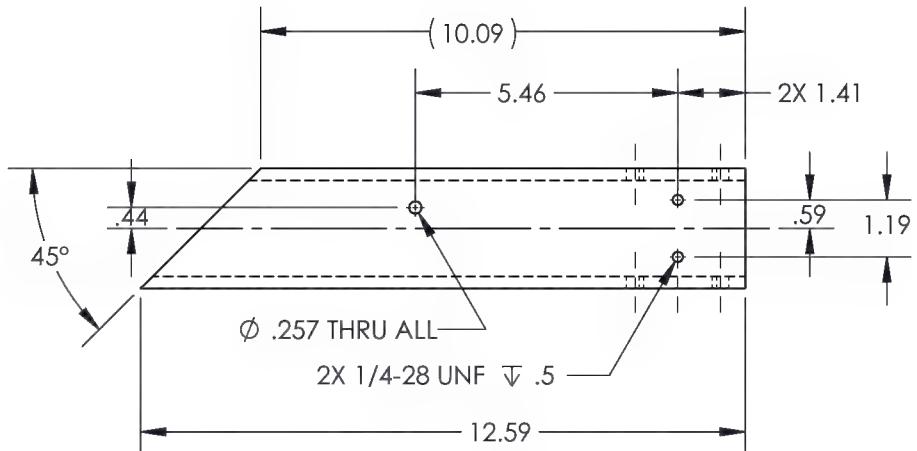
-105

RIGHT SIDE

TITLE		DWG NO.		REV	
TOW DOLLY		RBW0905G00134-3G-03-105		5	
MAT'L 6061		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			
HEAT		.XXX ± .005 FRACTIONS ± 1/8			
TREAT		.XX ± .01 ANGLES ± 5°			
FINISH SEE -099 WELDMENT		.X ± .1 SURFACES = 125 ✓			
SPEC		1. BREAK ALL SHARP EDGES .015 x 45° OR .015R			
DRAWN BY: PERRITT		2. DIMENSIONAL LIMITS APPLY AFTER PLATING			
CHECKED: MACKOVJAK		3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009			
OPPS APPR: ANDERSON		USED ON MODEL			
QA APPR: LINDSAY		APPROVED: GILBERT AGUSTA AW139			
SCALE 1:4		DATE 2/12/2010		SHEET 21 OF 49	

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REV			ECR			DESCRIPTION			DATE			INITIAL			APPROVED		
4	16-0029		-107 DELETED DIM'S .66 & .81, ADDED DIM'S .59 & .44.						2/9/2016			RJC			JAG		



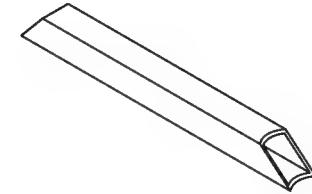
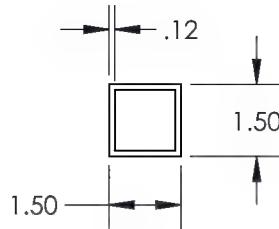
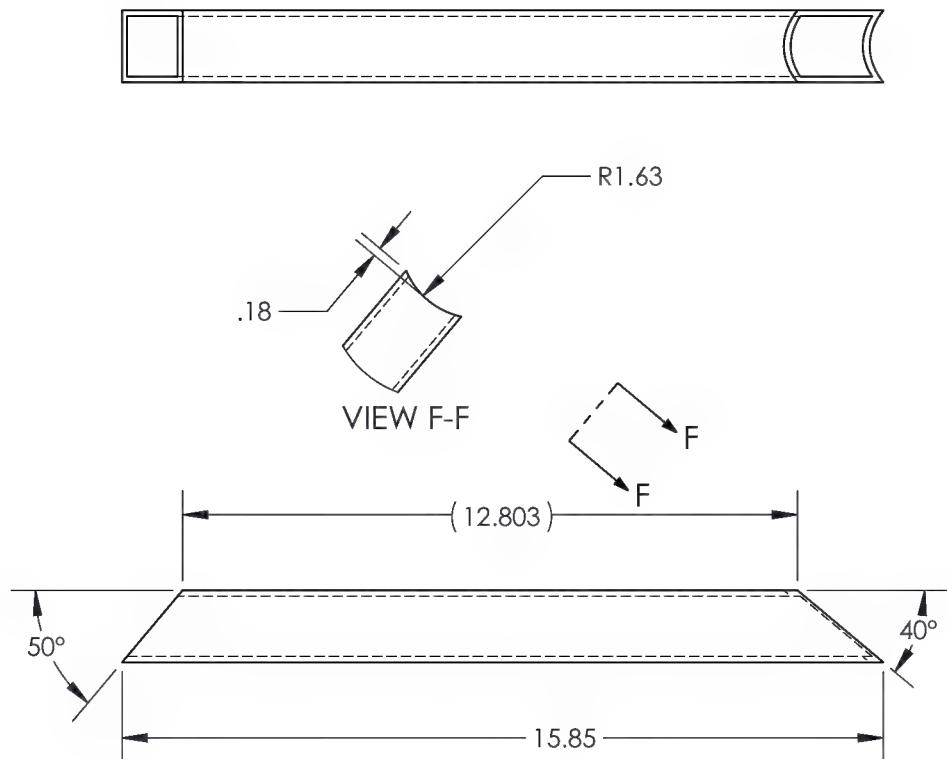
(-107)

LEFT SIDE

DART AEROSPACE	
TITLE	
TOW DOLLY	
DWG NO. RBW0905G00134-3G-03-107	
REV 5	
MAT'L 6061	
UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
.XXX ± .005 FRACTIONS ± 1/8	
.XX ± .01 ANGLES ± 5°	
.X ± .1 SURFACES = 125 ✓	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY: PERRITT	
CHECKED: MACKOVJAK	
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	
APPROVED: GILBERT	
USED ON MODEL AGUSTA AW139	
SCALE 1:4	DATE 2/12/2010
SHEET 22 OF 49	

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REV	ECR	REVISIONS	DESCRIPTION	DATE	INITIAL	APPROVED
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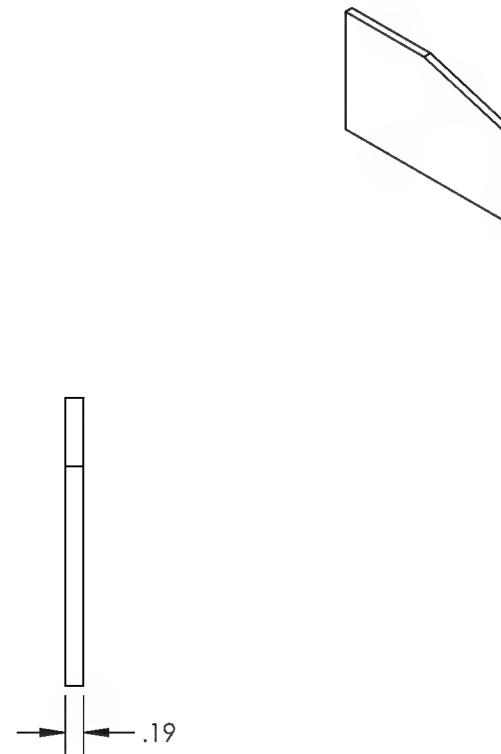
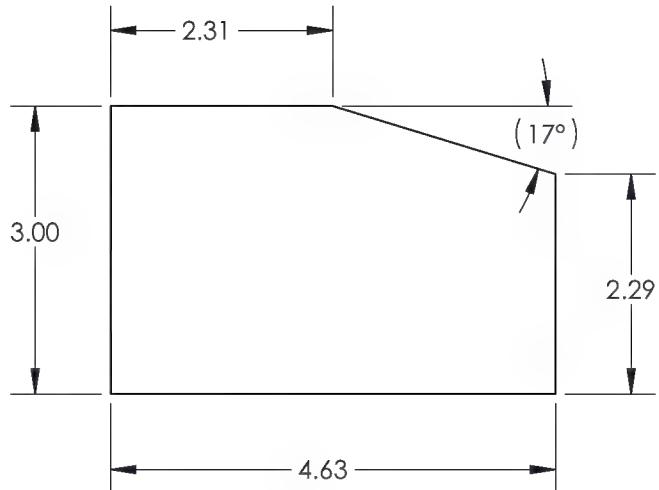
-109

BRACE

DART AEROSPACE	
TITLE	
TOW DOLLY	
DWG NO. RBW0905G00134-3G-03-109	
REV 5	
UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
.XXX ± .010 FRACTIONS ± 1/8	
.XX ± .03 ANGLES ± 1°	
.X ± .1 SURFACES = 125 ✓	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY: MARPET	
CHECKED: MACKOVJAK	
OPPS APPR: ANDERSON	
QA APPR: LINDSAY USED ON MODEL	
APPROVED: GILBERT AGUSTA AW139	
SCALE 1:4	DATE 1/28/2013
SHEET 23 OF 49	

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REV	ECR	REVISIONS	DESCRIPTION	DATE	INITIAL	APPROVED
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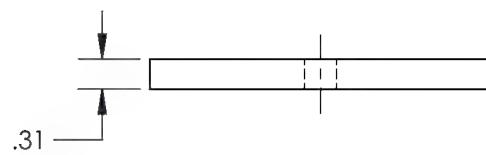
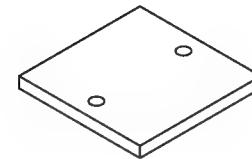
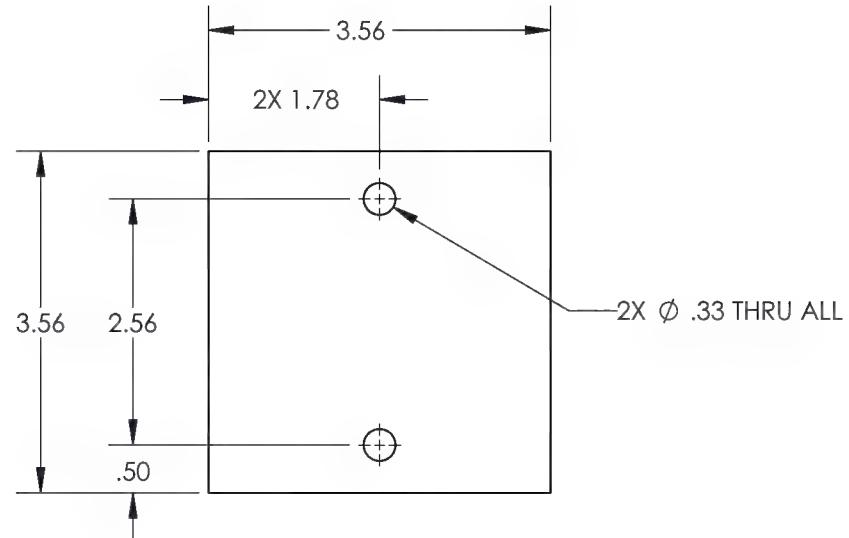
(-111)

GUSSET

DART AEROSPACE	
TITLE	
TOW DOLLY	
DWG NO. RBW0905G00134-3G-03-111	
REV 5	
UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
.XXX $\pm$ .010 FRACTIONS $\pm$ 1/8	
.XX $\pm$ .03 ANGLES $\pm$ $1^\circ$	
.X $\pm$ .1 SURFACES = 125	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY: MARPET	
CHECKED: MACKOVJAK	
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	
APPROVED: GILBERT	
USED ON MODEL	
AGUSTA AW139	
SCALE	1:2
DATE	1/24/2013
SHEET 24 OF 49	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3	14-0228	-113 CH'D HOLE WAS 2X Ø.257 THRU ALL IS Ø .33.	2/2/2015	RJC	JAG



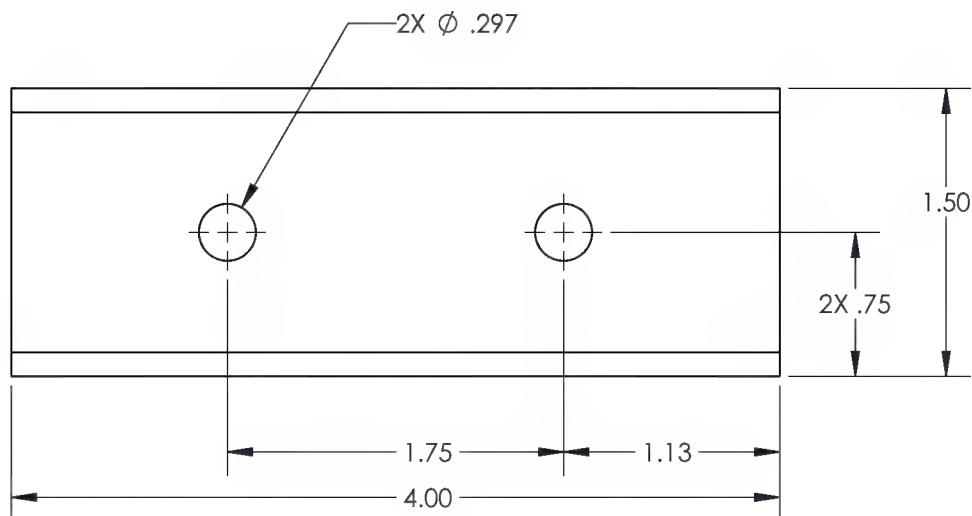
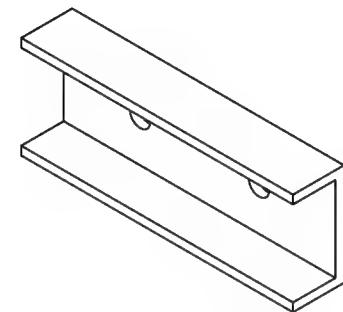
-113

WHEEL PLATE

DART AEROSPACE	
TITLE	
TOW DOLLY	
DWG NO. RBW0905G00134-3G-03-113	
REV	5
UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
.XXX ± .010 FRACTIONS ± 1/8	
.XX ± .03 ANGLES ± 1°	
.X ± .1 SURFACES = 125 ✓	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
USED ON MODEL	
GILBERT AGUSTA AW139	
SCALE	1:2
DATE	1/24/2013
SHEET 25 OF 49	

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			REVISIONS			
REV	ECR		DESCRIPTION	DATE	INITIAL	APPROVED
3	14-0228		-115 CH'D MATERIAL WAS 6061 IS 6063.	2/2/2015	RJC	JAG



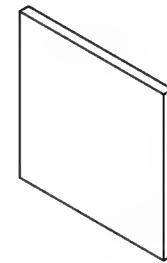
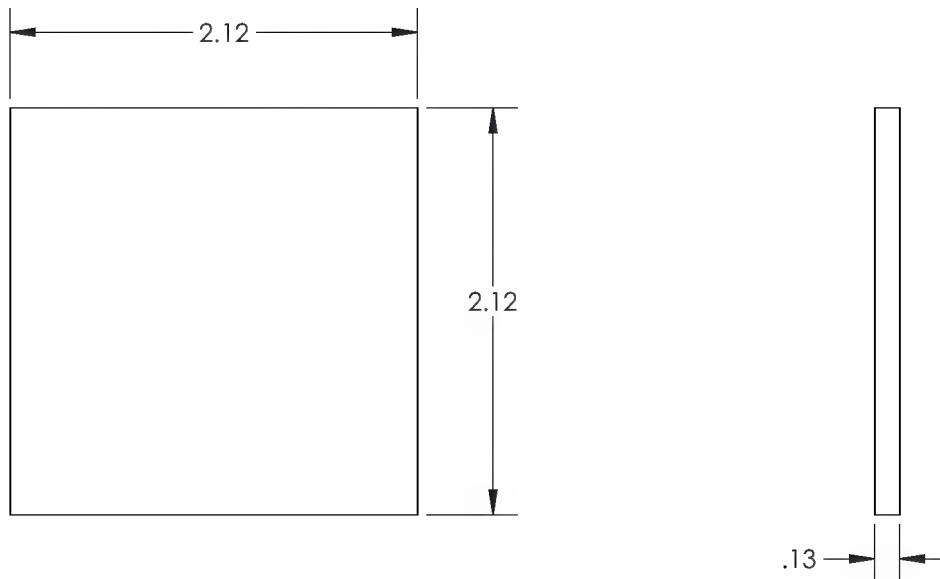
TITLE		DART	
		AEROSPACE	
TOW DOLLY			
DWG NO.		RBW0905G00134-3G-03-115	
REV		5	
MAT'L		6063	
HEAT		UNLESS OTHERWISE SPECIFIED	
TREAT		DIMENSIONS ARE IN INCHES	
FINISH SEE -099 WELDMENT		.XXX $\pm$ .005 FRACTIONS $\pm$ 1/8	
SPEC		.XX $\pm$ .01 ANGLES $\pm$ 5°	
DRAWN BY:		X $\pm$ .1 SURFACES = 125 ✓	
CHECKED:		1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
OPPS APPR:		2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
QA APPR:		3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
APPROVED:		USED ON MODEL	
GILBERT		AGUSTA AW139	
SCALE		1:1	DATE
DATE		1/24/2013	SHEET
DATE		26 OF 49	SHEET

-115

CHANNEL

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REV		ECR		REVISIONS		
				DESCRIPTION		DATE
				INITIAL	APPROVED	



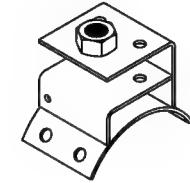
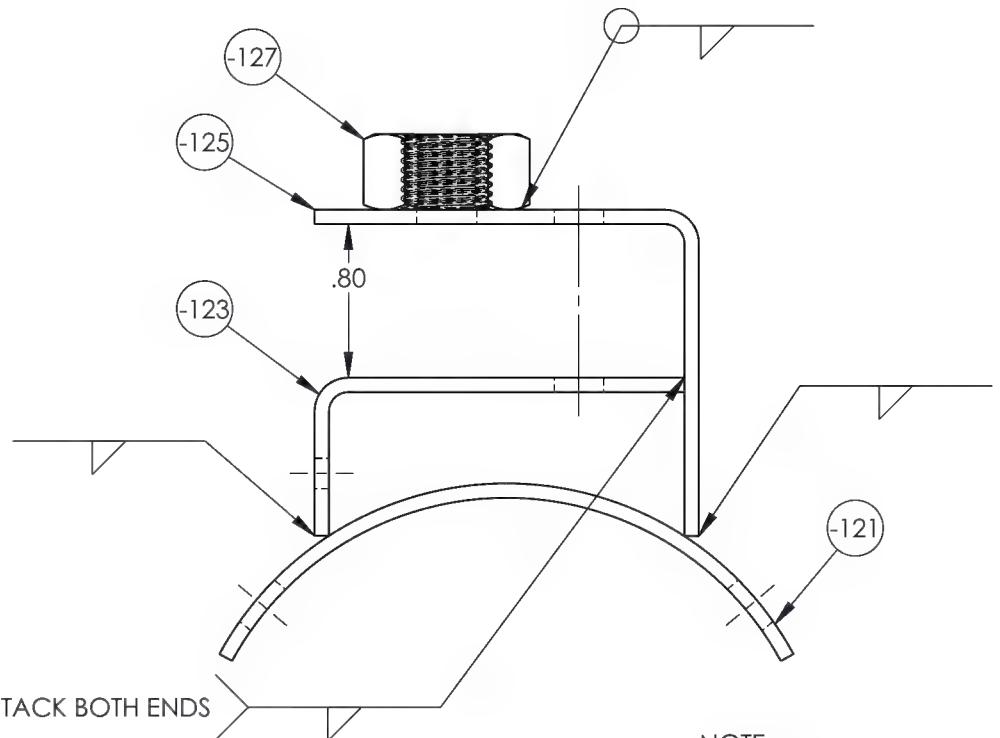
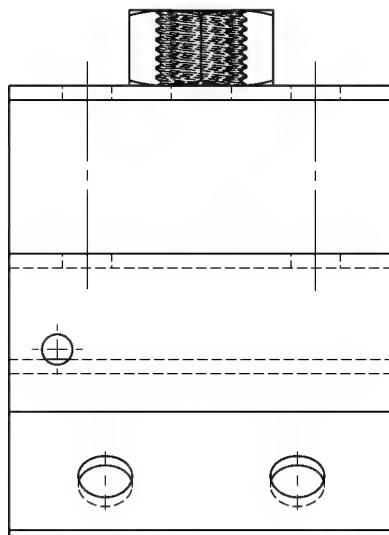
-117

END CAP

TITLE		DWG NO.		REV
TOW DOLLY		RBW0905G00134-3G-03-117		5
MAT'L 6061				UNLESS OTHERWISE SPECIFIED
HEAT				DIMENSIONS ARE IN INCHES
TREAT				.XXX ± .010 FRACTIONS ± 1/8
FINISH SEE -099 WELDMENT				.XX ± .03 ANGLES ± 1°
SPEC				X ± .1 SURFACES = 125 ✓
DRAWN BY: MARPET		1. BREAK ALL SHARP EDGES .015 x 45° OR .015R		
CHECKED: MACKOVJAK		2. DIMENSIONAL LIMITS APPLY AFTER PLATING		
OPPS APPR: ANDERSON		3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009		
QA APPR: LINDSAY		USED ON MODEL		
APPROVED: GILBERT		AGUSTA AW139		
SCALE 1:1		DATE 1/24/2013		SHEET 27 OF 49

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REV			ECR			DESCRIPTION			DATE			INITIAL			APPROVED		
2A			14-0158			-119 ADDED NOTE.			9/24/2014			DJN			JAG		



NOTE:  
CENTER -123, -125 ON -121.

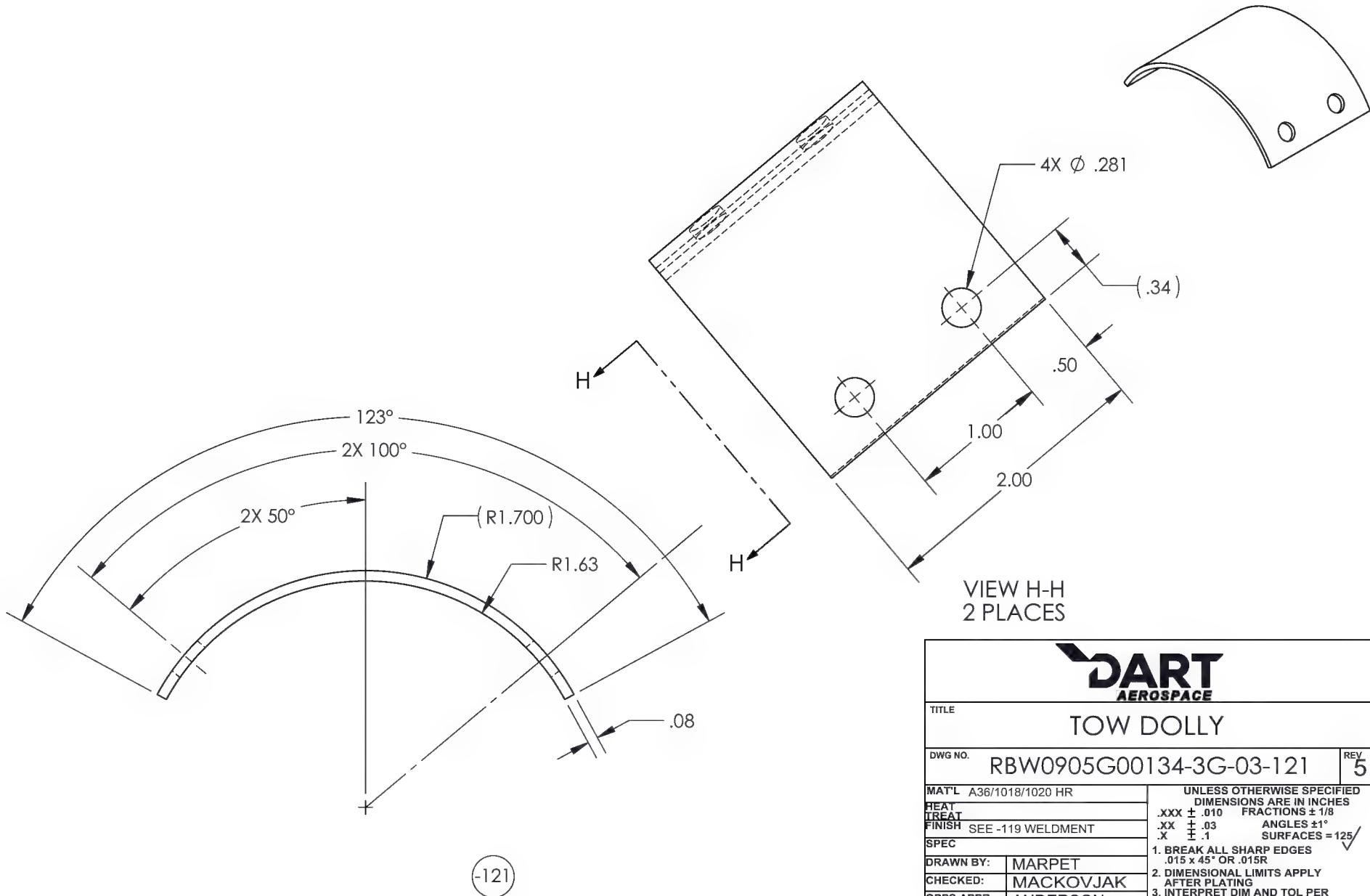
HANDLE BRACKET WELDMENT

-119

DART AEROSPACE					
TITLE					
TOW DOLLY					
DWG NO. RBW0905G00134-3G-03-119					
REV	5				
MAT'L					
HEAT					
TREAT					
FINISH POWDER COAT YELLOW					
SPEC FED #13538					
DRAWN BY:	MARPET				
CHECKED:	MACKOVJAK				
OPPS APPR:	ANDERSON				
QA APPR:	LINDSAY				
APPROVED:	GILBERT				
UNLESS OTHERWISE SPECIFIED					
DIMENSIONS ARE IN INCHES					
.XXX ± .010 FRACTIONS ± 1/8					
.XX ± .03 ANGLES ± 1°					
X ± .1 SURFACES = 125 ✓					
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R					
2. DIMENSIONAL LIMITS APPLY AFTER PLATING					
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009					
USED ON MODEL					
AGUSTA AW139					
SCALE	1:1	DATE	1/28/2013	SHEET 28 OF 49	
DATE	1/28/2013				
SHEET 28 OF 49					

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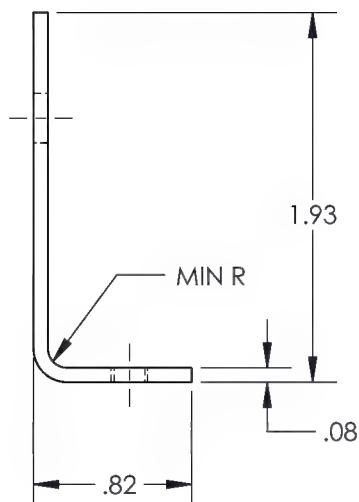
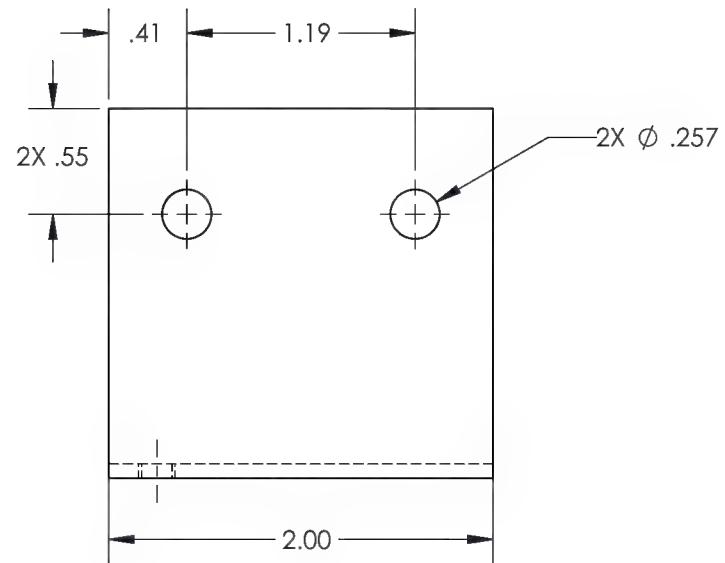
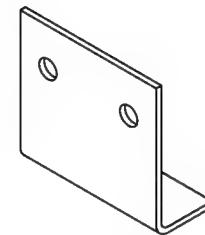
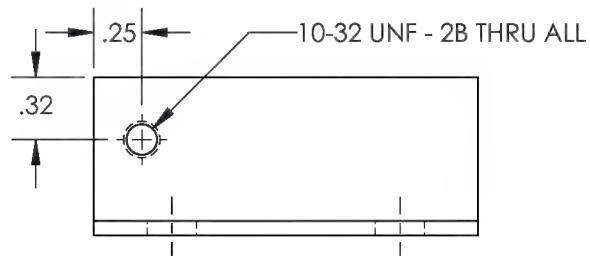
REV			ECR			DESCRIPTION			DATE			INITIAL			APPROVED		
2A			14-0158			-121 ADDED AUX VIEW.			9/24/2014			DJN			JAG		



DART AEROSPACE	
TITLE	
TOW DOLLY	
DWG NO. RBW0905G00134-3G-03-121	
REV 5	
MAT'L A36/1018/1020 HR	
HEAT	
TREAT	
FINISH SEE -119 WELDMENT	
SPEC	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
.XXX ± .010 FRACTIONS ± 1/8	
.XX ± .03 ANGLES ± 1°	
.X ± .1 SURFACES = 125 ✓	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY: MARPET	
CHECKED: MACKOVJAK	
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	
APPROVED: GILBERT	
USED ON MODEL	
AGUSTA AW139	
SCALE	1:1
DATE	1/23/2013
SHEET 29 OF 49	

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REV			ECR			DESCRIPTION			DATE			INITIAL			APPROVED		
4			16-0029			-123 ADDED #10-32 HOLE.			2/9/2016			RJC			JAG		



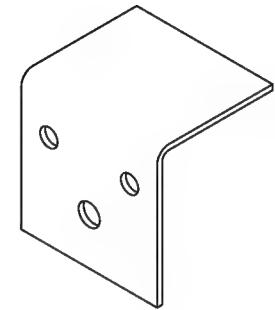
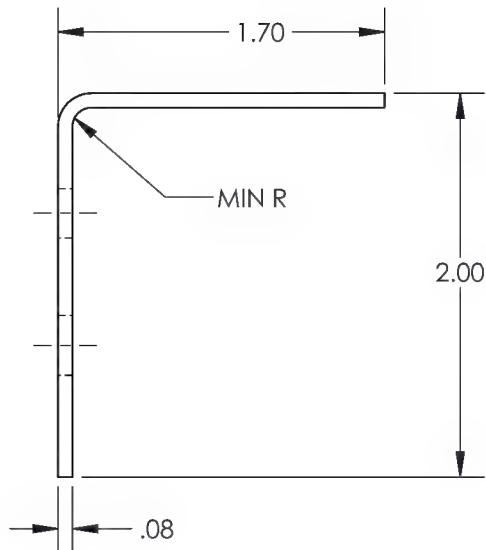
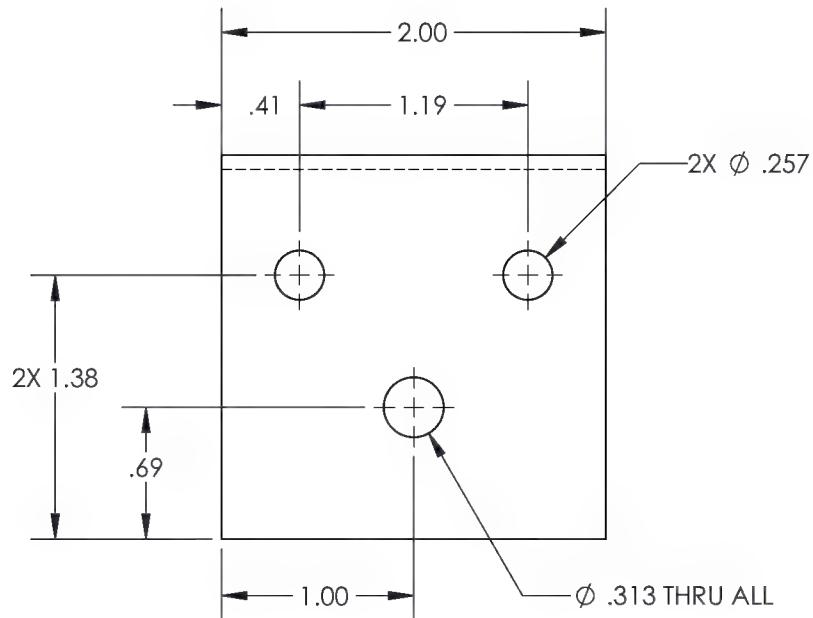
-123

INSIDE

DART AEROSPACE	
TITLE	
TOW DOLLY	
DWG NO. RBW0905G00134-3G-03-123	
REV 5	
UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
.XXX ± .010 FRACTIONS ± 1/8	
.XX ± .03 ANGLES ± 1°	
.X ± .1 SURFACES = 125 ✓	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY: MARPET	
CHECKED: MACKOVJAK	
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	
APPROVED: GILBERT	
USED ON MODEL AGUSTA AW139	
SCALE	1:1
DATE	1/24/2013
SHEET 30 OF 49	

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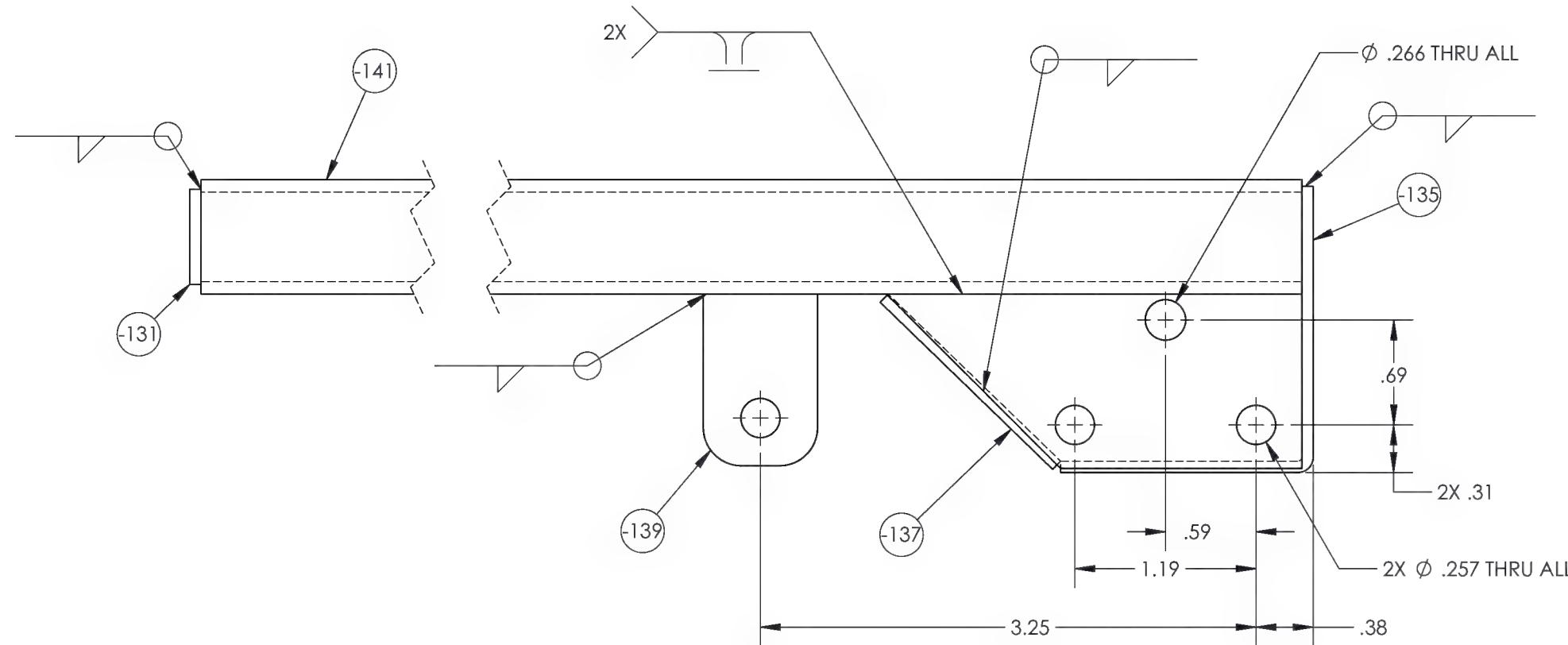
REV	ECR	REVISIONS	DESCRIPTION	DATE	INITIAL	APPROVED
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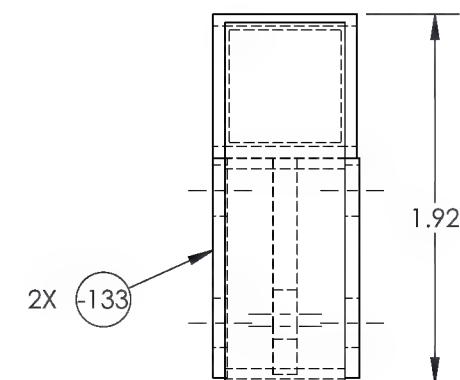
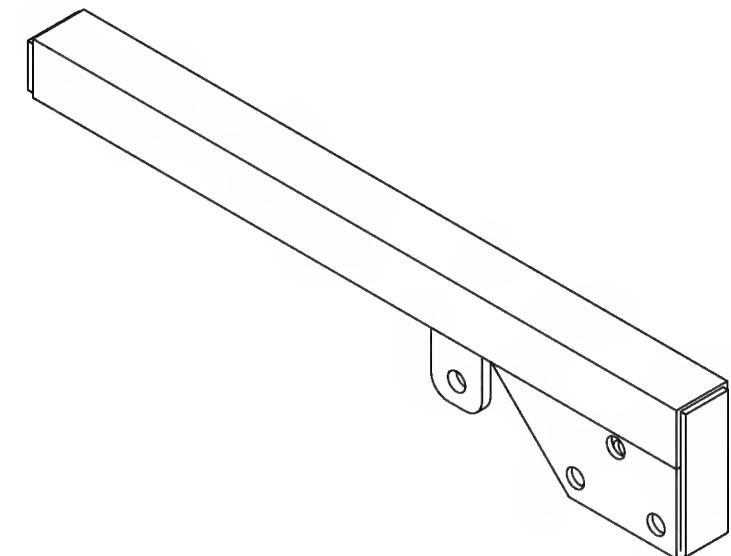
-125

OUTSIDE

DART AEROSPACE	
TITLE	
TOW DOLLY	
DWG NO. RBW0905G00134-3G-03-125	
REV 5	
UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
.000 ± .010 FRACTIONS ± 1/8	
.000 ± .03 ANGLES ± 1°	
.000 ± .1 SURFACES = 125 ✓	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY: MARPET	
CHECKED: MACKOVJAK	
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	
APPROVED: GILBERT	
USED ON MODEL	
AGUSTA AW139	
SCALE	1:1
DATE	1/24/2013
SHEET 31 OF 49	



HANDLE WELDMENT

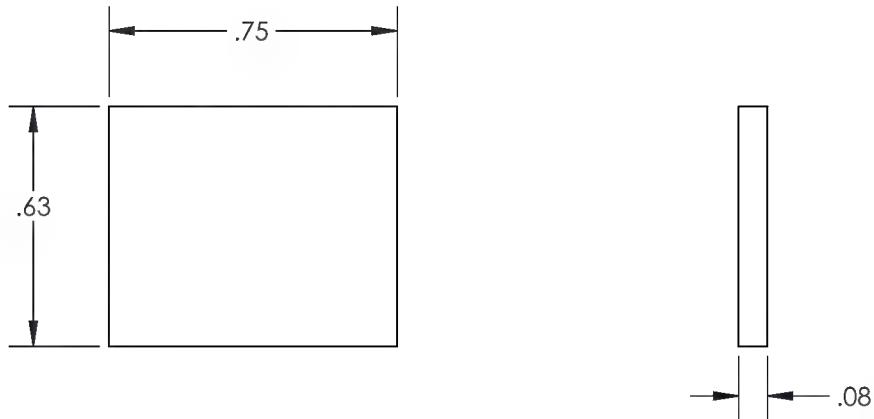


-129

DART AEROSPACE	
TITLE	
TOW DOLLY	
DWG NO. RBW0905G00134-3G-03-129	
REV 5	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8 .XX ± .03 ANGLES ± 1° X ± .1 SURFACES = 125 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
MATL	
HEAT	
TREAT	
FINISH POWDER COAT YELLOW	
SPEC	FED #13538
DRAWN BY:	MARPET
CHECKED:	MACKOVJAK
OPPS APPR:	ANDERSON
QA APPR:	LINDSAY
APPROVED:	GILBERT
USED ON MODEL	AGUSTA AW139
SCALE	1:1
DATE	1/29/2013
SHEET 32 OF 49	

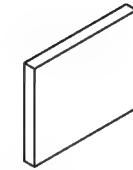
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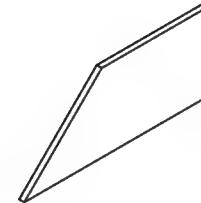
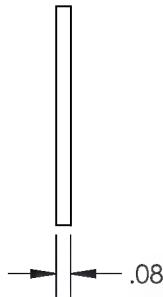
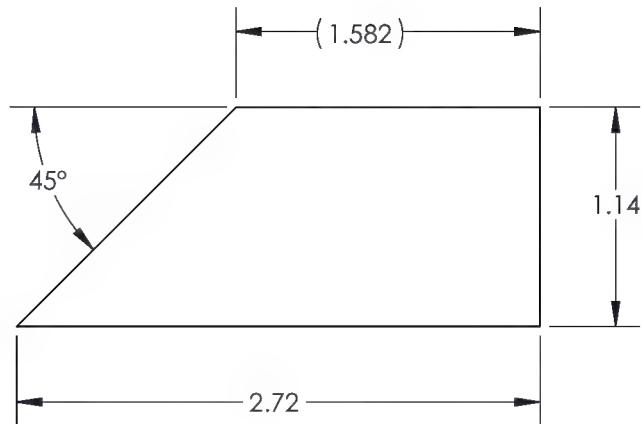
END CAP



<b>DART</b> AEROSPACE	
TITLE	
TOW DOLLY	
DWG NO. RBW0905G00134-3G-03-131	
REV 5	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8 .XX ± .03 ANGLES ± 1° X ± .1 SURFACES = 125	
MAT'L A36/1018/1020 HR HEAT TREAT FINISH SEE -129 WELDMENT SPEC	
DRAWN BY: MARPET CHECKED: MACKOVJAK OPPS APPR: ANDERSON QA APPR: LINDSAY APPROVED: GILBERT	
USED ON MODEL AGUSTA AW139	
SCALE	2:1
DATE	1/24/2013
SHEET 33 OF 49	

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				DESCRIPTION		DATE
				INITIAL	APPROVED	



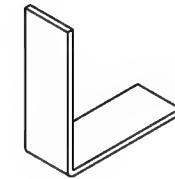
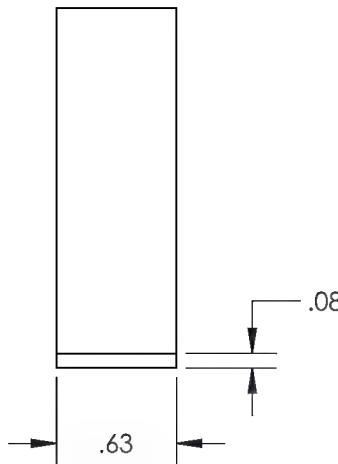
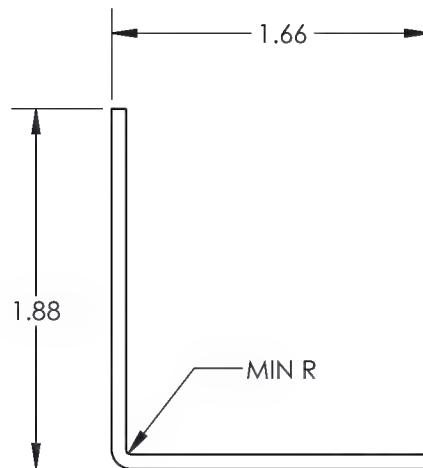
-133

SIDE PLATE

	
TITLE	
TOW DOLLY	
DWG NO.	RBW0905G00134-3G-03-133
REV	5
MAT'L	A36/1018/1020 HR
HEAT	UNLESS OTHERWISE SPECIFIED
TREAT	DIMENSIONS ARE IN INCHES
FINISH	.XXX ± .010 FRACTIONS ± 1/8
SEE -129 WELDMENT	.XX ± .03 ANGLES ± 1°
SPEC	.X ± .1 SURFACES = 125
DRAWN BY:	MARPET ✓
CHECKED:	MACKOVJAK
OPPS APPR:	ANDERSON
QA APPR:	LINDSAY
APPROVED:	GILBERT
USED ON MODEL	AGUSTA AW139
SCALE	1:1
DATE	1/24/2013
SHEET	34 OF 49

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REV		ECR		DESCRIPTION			DATE	INITIAL	APPROVED
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-135  
BACK END

DART AEROSPACE	
TITLE	
TOW DOLLY	
DWG NO. RBW0905G00134-3G-03-135	
REV 5	
MAT'L A36/1018/1020 HR	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
.000 ± .010 FRACTIONS ± 1/8	
.00 ± .03 ANGLES ± 1°	
.00 ± .1 SURFACES = 125 ✓	
HEAT TREAT	
FINISH SEE -129 WELDMENT	
SPEC	
DRAWN BY:	MARPET
CHECKED:	MACKOVJAK
OPPS APPR:	ANDERSON
QA APPR:	LINDSAY
APPROVED:	GILBERT
USED ON MODEL	
AGUSTA AW139	
SCALE	1:1
DATE	1/24/2013
SHEET 35 OF 49	

**DART**  
AEROSPACE

TOW DOLLY

RBW0905G00134-3G-03-135

5

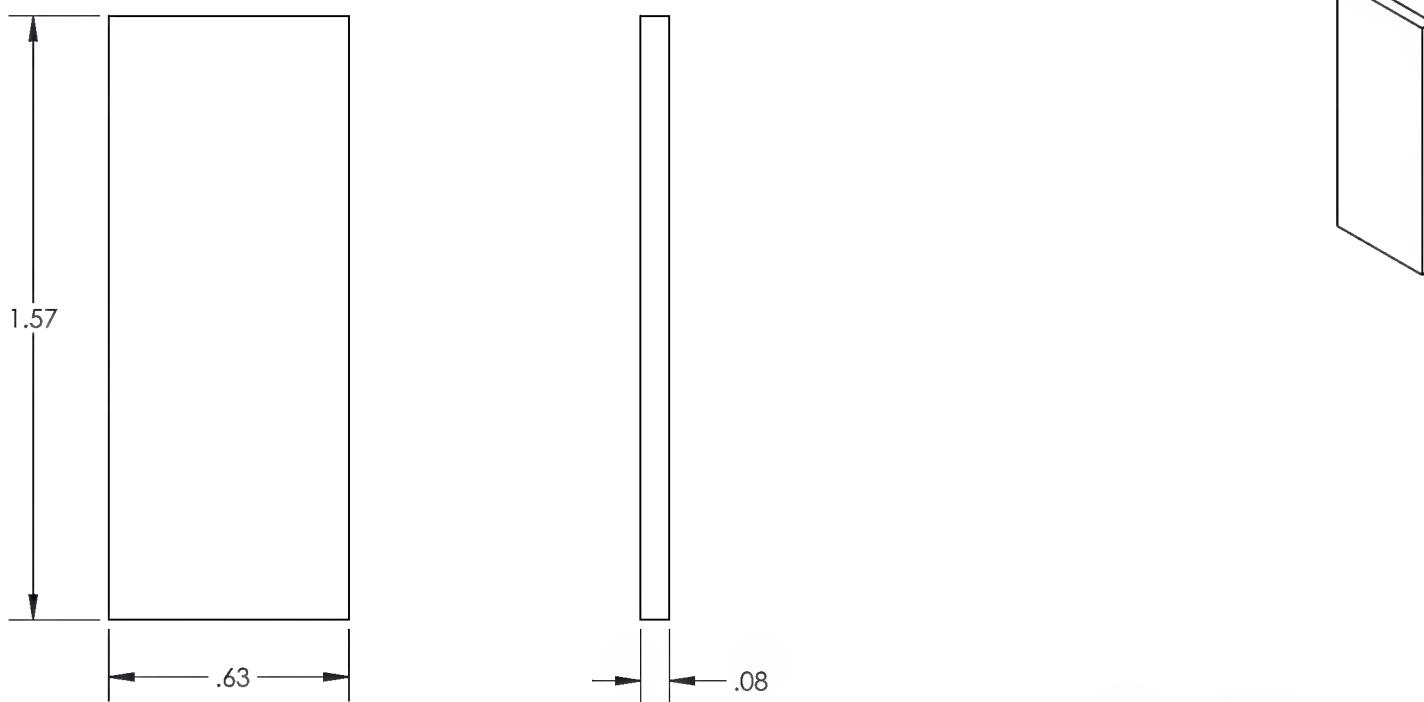
UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
.000 ± .010 FRACTIONS ± 1/8  
.00 ± .03 ANGLES ± 1°  
.00 ± .1 SURFACES = 125 ✓  
1. BREAK ALL SHARP EDGES  
.015 x 45° OR .015R  
2. DIMENSIONAL LIMITS APPLY  
AFTER PLATING  
3. INTERPRET DIM AND TOL PER  
ASME Y14.5M-2009  
USED ON MODEL  
AGUSTA AW139  
SCALE 1:1 DATE 1/24/2013 SHEET 35 OF 49

-135

BACK END

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REV	ECR	REVISIONS	DESCRIPTION	DATE	INITIAL	APPROVED
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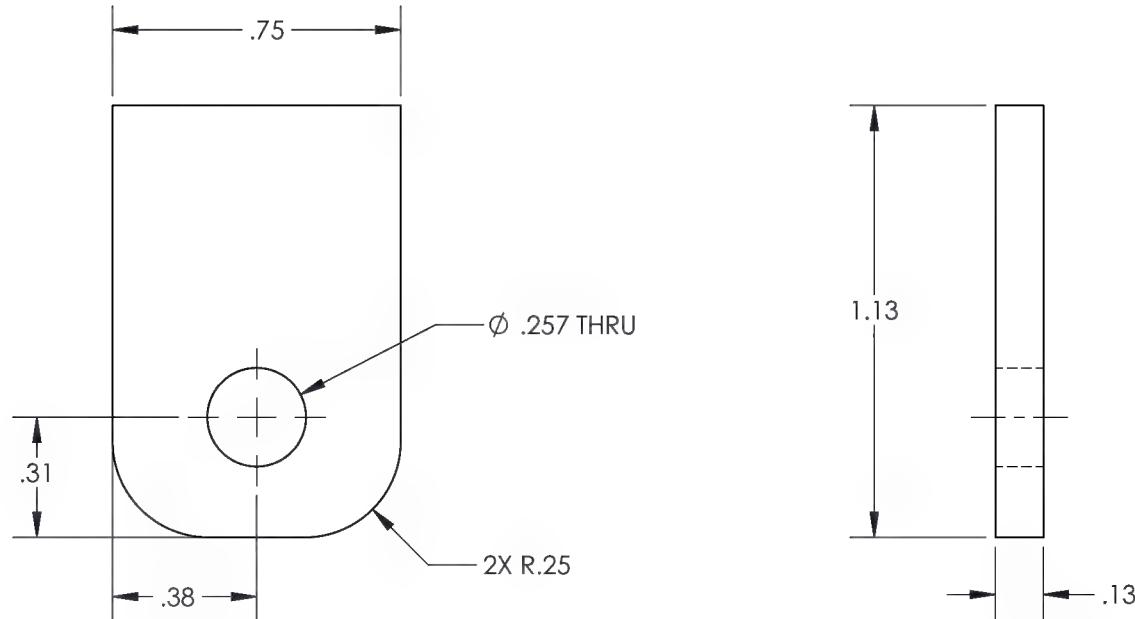


-137  
FRONT END

DART AEROSPACE	
TITLE	
TOW DOLLY	
DWG NO. RBW0905G00134-3G-03-137	
REV 5	
UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
.XXX ± .010 FRACTIONS ± 1/8	
.XX ± .03 ANGLES ± 1°	
.X ± .1 SURFACES = 125 ✓	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY: MARPET	
CHECKED: MACKOVJAK	
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	
APPROVED: GILBERT	
USED ON MODEL	
AGUSTA AW139	
SCALE 2:1	DATE 1/24/2013
SHEET 36 OF 49	

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REV	ECR	REVISIONS	DESCRIPTION	DATE	INITIAL	APPROVED
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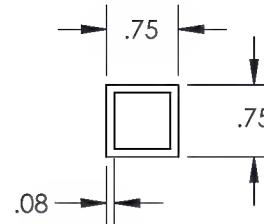
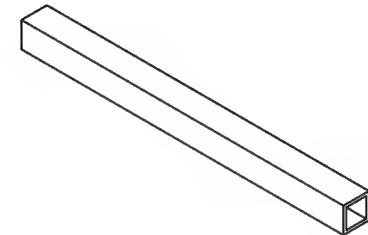
-139

TAB

DART AEROSPACE	
TITLE	
TOW DOLLY	
DWG NO. RBW0905G00134-3G-03-139	
REV 5	
UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
.XXX ± .010 FRACTIONS ± 1/8	
.XX ± .03 ANGLES ± 1°	
.X ± .1 SURFACES = 125 ✓	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY: MARPET	
CHECKED: MACKOVJAK	
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	
APPROVED: GILBERT	
USED ON MODEL	
AGUSTA AW139	
SCALE 2:1	DATE 1/24/2013
SHEET 37 OF 49	

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REV	ECR	REVISIONS	DESCRIPTION	DATE	INITIAL	APPROVED
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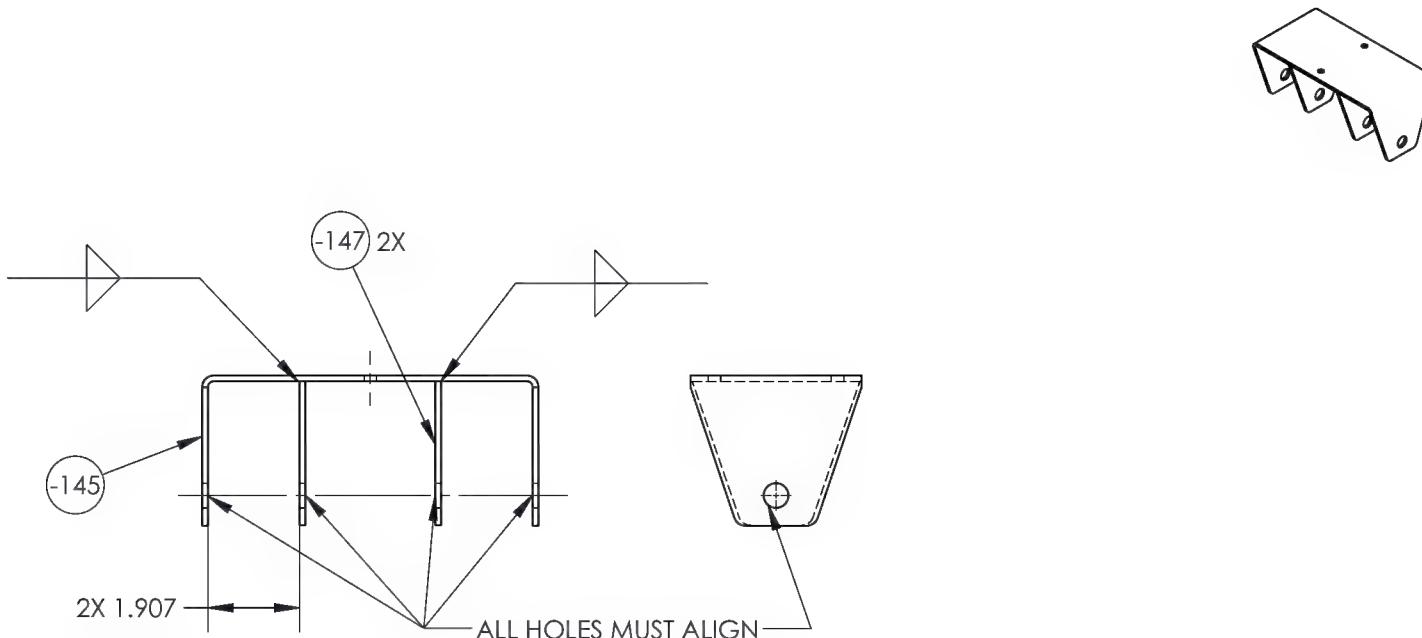
(-141)

HANDLE

<b>DART</b> AEROSPACE																					
TITLE																					
TOW DOLLY																					
DWG NO. RBW0905G00134-3G-03-141 REV 5																					
<p style="text-align: center;">UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">MATERIAL</td> <td style="width: 50%;">STEEL</td> </tr> <tr> <td>HEAT</td> <td>.XXX ± .005</td> </tr> <tr> <td>TREAT</td> <td>FRACTIONS ± 1/8</td> </tr> <tr> <td colspan="2">FINISH SEE -129 WELDMENT</td> </tr> <tr> <td colspan="2">SPEC</td> </tr> <tr> <td colspan="2">DRAWN BY: MARPET</td> </tr> <tr> <td colspan="2">CHECKED: MACKOVJAK</td> </tr> <tr> <td colspan="2">OPPS APPR: ANDERSON</td> </tr> <tr> <td colspan="2">QA APPR: LINDSAY</td> </tr> <tr> <td colspan="2">APPROVED: GILBERT</td> </tr> </table> <p style="text-align: center;">ANGLES ± 5° .XX ± .01 X ± .1 SURFACES = 125 ✓</p> <p style="text-align: center;">1. BREAK ALL SHARP EDGES .015 x 45° OR .015R</p> <p style="text-align: center;">2. DIMENSIONAL LIMITS APPLY AFTER PLATING</p> <p style="text-align: center;">3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009</p> <p style="text-align: center;">USED ON MODEL</p> <p style="text-align: center;">AGUSTA AW139</p>		MATERIAL	STEEL	HEAT	.XXX ± .005	TREAT	FRACTIONS ± 1/8	FINISH SEE -129 WELDMENT		SPEC		DRAWN BY: MARPET		CHECKED: MACKOVJAK		OPPS APPR: ANDERSON		QA APPR: LINDSAY		APPROVED: GILBERT	
MATERIAL	STEEL																				
HEAT	.XXX ± .005																				
TREAT	FRACTIONS ± 1/8																				
FINISH SEE -129 WELDMENT																					
SPEC																					
DRAWN BY: MARPET																					
CHECKED: MACKOVJAK																					
OPPS APPR: ANDERSON																					
QA APPR: LINDSAY																					
APPROVED: GILBERT																					
SCALE	1:2																				
DATE	1/24/2013																				
SHEET 38 OF 49																					

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REV	ECR	REVISIONS	DESCRIPTION	DATE	INITIAL	APPROVED
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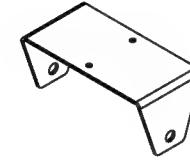
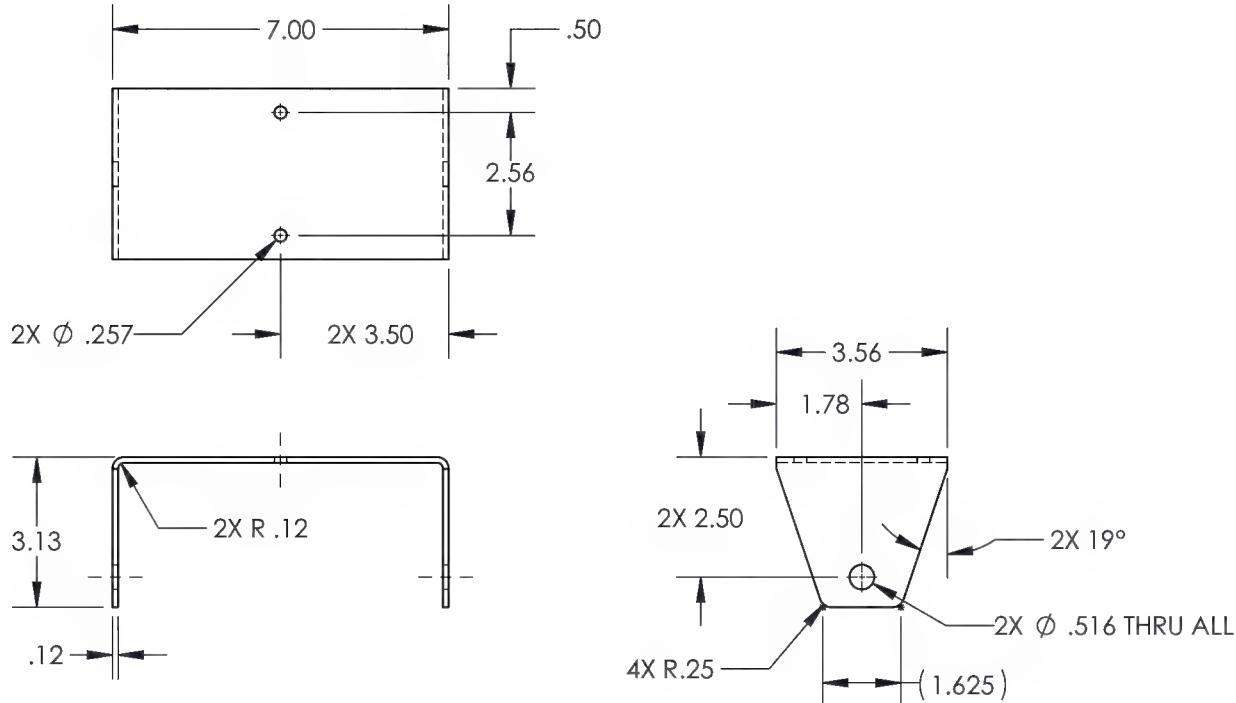
FRONT WHEEL BRACKET WELDMENT

-143

<b>DART</b> AEROSPACE	
TITLE	
TOW DOLLY	
DWG NO. RBW0905G00134-3G-03-143	
REV 5	
<b>MAT'L</b> HEAT TREAT FINISH POWDER COAT YELLOW SPEC FED #13538	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8 .XX ± .03 ANGLES ± 1° .X ± .1 SURFACES = 125	
DRAWN BY: MARPET CHECKED: MACKOVJAK OPPS APPR: ANDERSON QA APPR: LINDSAY APPROVED: GILBERT	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
USED ON MODEL AGUSTA AW139	
SCALE	1:4
DATE	1/29/2013
SHEET 39 OF 49	

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REV			ECR			DESCRIPTION			REVISIONS		
DATE	INITIAL	APPROVED	DATE	INITIAL	APPROVED	DATE	INITIAL	APPROVED	DATE	INITIAL	APPROVED
2A	14-0158	-145 CH'D DIM WAS R.12 IS 2X R.12.							9/24/2014	DJN	JAG



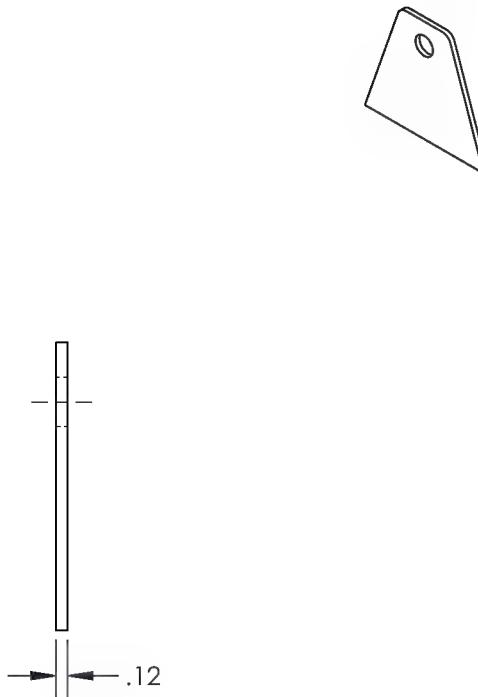
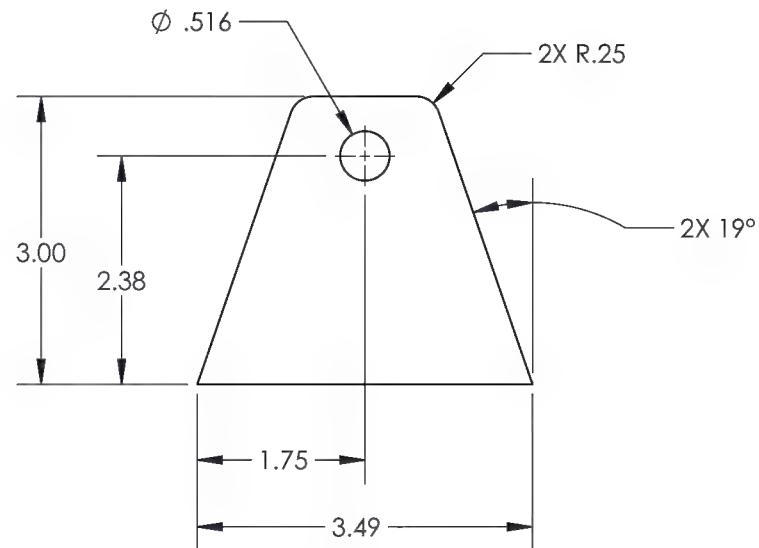
-145

FRONT WHEEL BRACKET FRAME

<b>DART</b> AEROSPACE	
TITLE	
TOW DOLLY	
DWG NO.	RBW0905G00134-3G-03-145
REV	5
UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
HEAT	.XXX ± .010 FRACTIONS ± 1/8
TREAT	.XX ± .03 ANGLES ± 1°
FINISH	X ± .1 SURFACES = 125
SPEC	✓
DRAWN BY:	MARPET
CHECKED:	MACKOVJAK
OPPS APPR:	ANDERSON
QA APPR:	LINDSAY
APPROVED:	GILBERT
USED ON MODEL	
AGUSTA AW139	
SCALE	1:4
DATE	1/28/2013
SHEET 40 OF 49	

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REV		ECR		REVISIONS		
				DESCRIPTION		DATE
				INITIAL	APPROVED	



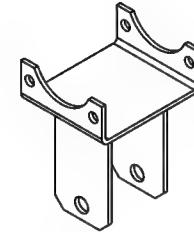
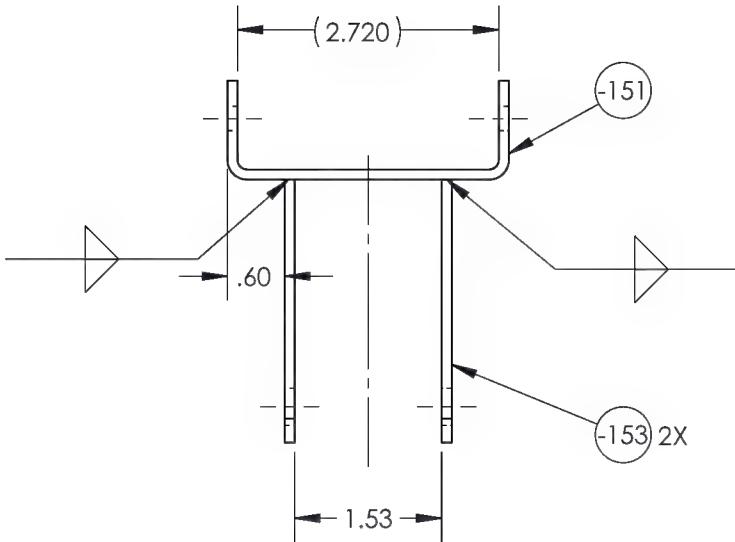
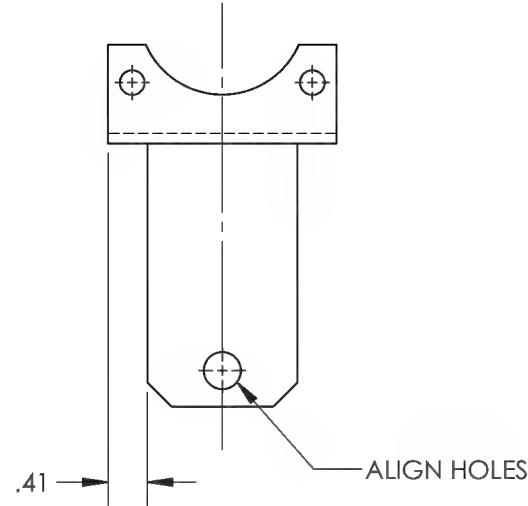
FRONT WHEEL BRACKET GUSSET

-147

DART AEROSPACE	
TITLE	
TOW DOLLY	
DWG NO. RBW0905G00134-3G-03-147	
REV 5	
MAT'L A36/1018/1020 HR	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
HEAT	.XXX ± .010 FRACTIONS ± 1/8
TREAT	.XX ± .03 ANGLES ± 1°
FINISH SEE -143 WELDMENT	
SPEC	X ± .1 SURFACES = 125 ✓
DRAWN BY:	MARPET
CHECKED:	MACKOVJAK
OPPS APPR:	ANDERSON
QA APPR:	LINDSAY
APPROVED:	GILBERT
USED ON MODEL	
AGUSTA AW139	
SCALE	1:2
DATE	1/28/2013
SHEET 41 OF 49	

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REV	ECR	REVISIONS	DESCRIPTION	DATE	INITIAL	APPROVED
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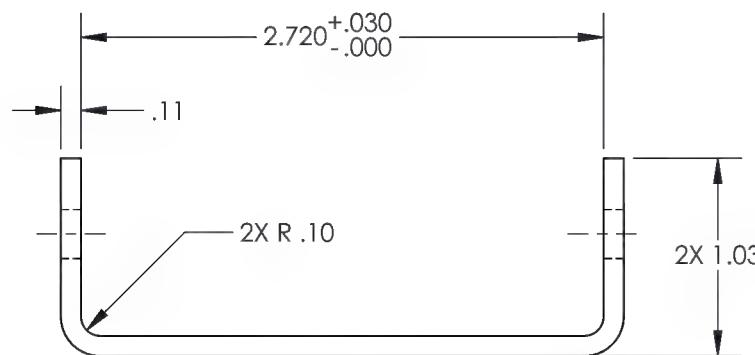
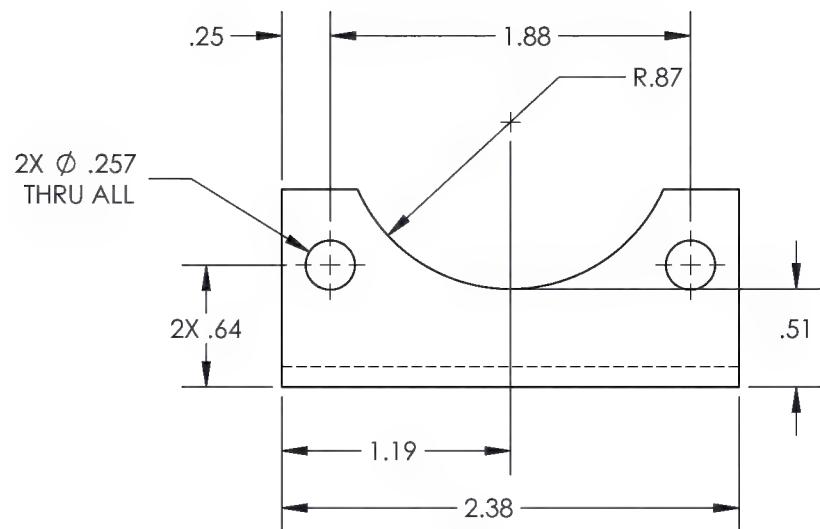
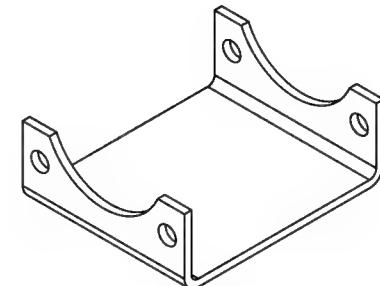
-149

REAR WHEEL BRACKET WELDMENT

DART AEROSPACE	
TITLE	
TOW DOLLY	
DWG NO. RBW0905G00134-3G-03-149	
REV 5	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
.XXX ± .010 FRACTIONS ± 1/8	
.XX ± .03 ANGLES ± 1°	
.X ± .1 SURFACES = 125 ✓	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY: MARPET	
CHECKED: MACKOVJAK	
OPPS APPR: ANDERSON	
QA APPR: LINDSAY USED ON MODEL	
APPROVED: GILBERT AGUSTA AW139	
SCALE	1:2
DATE	1/30/2013
SHEET 42 OF 49	

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REV			ECR			DESCRIPTION			REVISIONS		
4	16-0029	-151 CH'D DIM WAS 2.66 IS 2.720 +.030-.000.						DATE	INITIAL	APPROVED	
								2/10/2016	RJC	JAG	



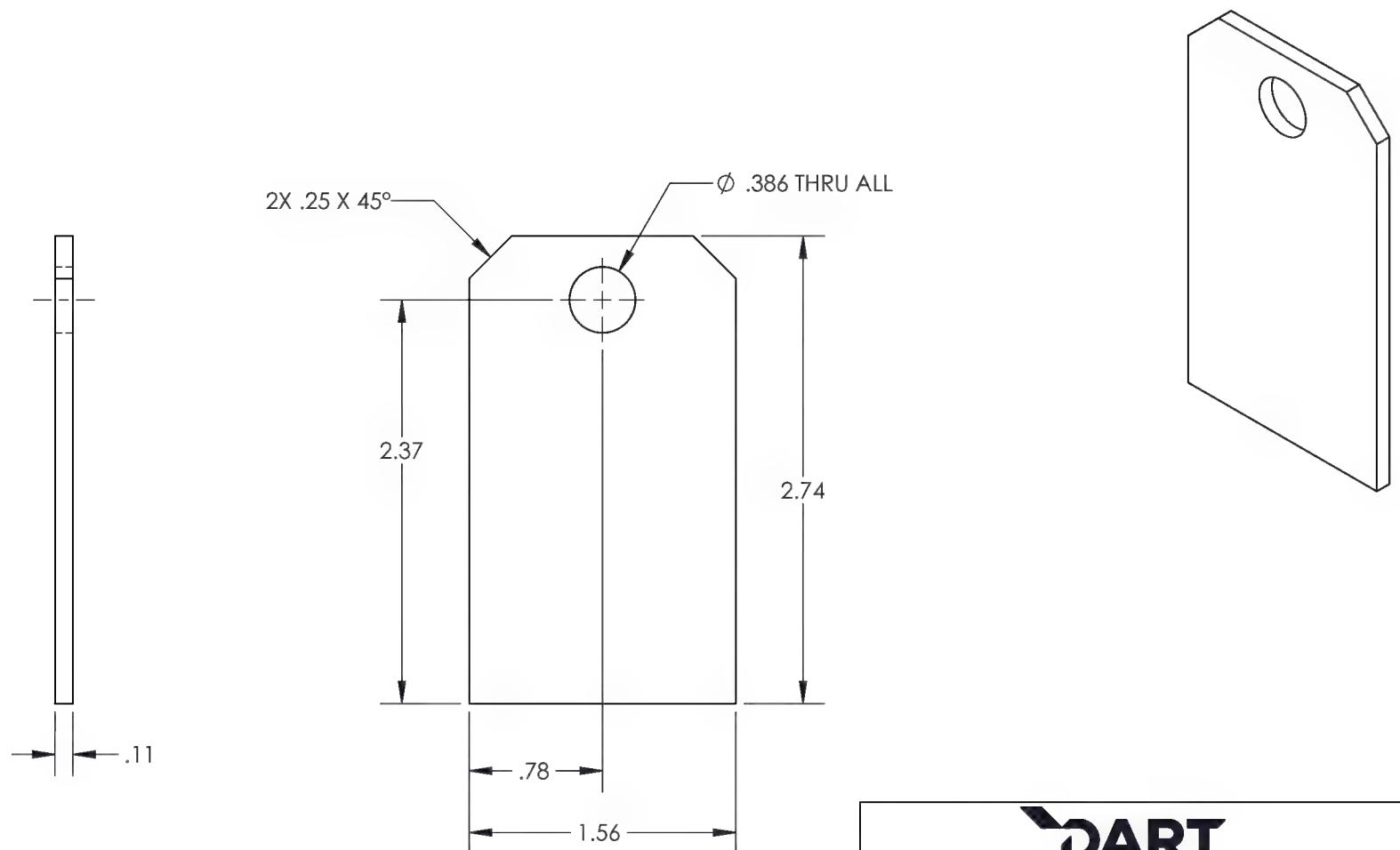
REAR WHEEL FRAME

-151

DART AEROSPACE	
TITLE	
TOW DOLLY	
DWG NO. RBW0905G00134-3G-03-151	
REV 5	
MAT'L A36/1018/1020 HR	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
HEAT XXX ± .010 FRACTIONS ± 1/8	
TREAT XX ± .03 ANGLES ± 1°	
FINISH SEE -149 WELDMENT	
SPEC X ± .1 SURFACES = 125 ✓	
DRAWN BY: MARPET	
CHECKED: MACKOVJAK	
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	
APPROVED: GILBERT	
USED ON MODEL AGUSTA AW139	
SCALE	1:1
DATE	1/28/2013
SHEET 43 OF 49	

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REV		ECR		REVISIONS			DESCRIPTION		DATE		INITIAL	APPROVED
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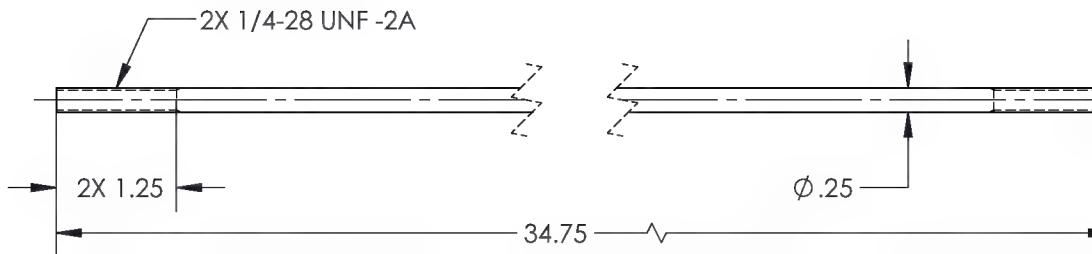
REAR WHEEL VERT. SUPPORT

-153

TITLE		DART AEROSPACE	
TOW DOLLY		DWG NO. RBW0905G00134-3G-03-153	
REV 5			
MAT'L A36/1018/1020 HR		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
HEAT		.XXX ± .010 FRACTIONS ± 1/8	
TREAT		.XX ± .03 ANGLES ± 1°	
FINISH SEE -149 WELDMENT		.X ± .1 SURFACES = 125 ✓	
SPEC		1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
DRAWN BY: MARPET		2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
CHECKED: MACKOVJAK		3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
OPPS APPR: ANDERSON		USED ON MODEL	
QA APPR: LINDSAY		APPROVED: GILBERT AGUSTA AW139	
SCALE 1:1		DATE 1/28/2013	
		SHEET 44 OF 49	

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REV	ECR	REVISIONS	DESCRIPTION	DATE	INITIAL	APPROVED
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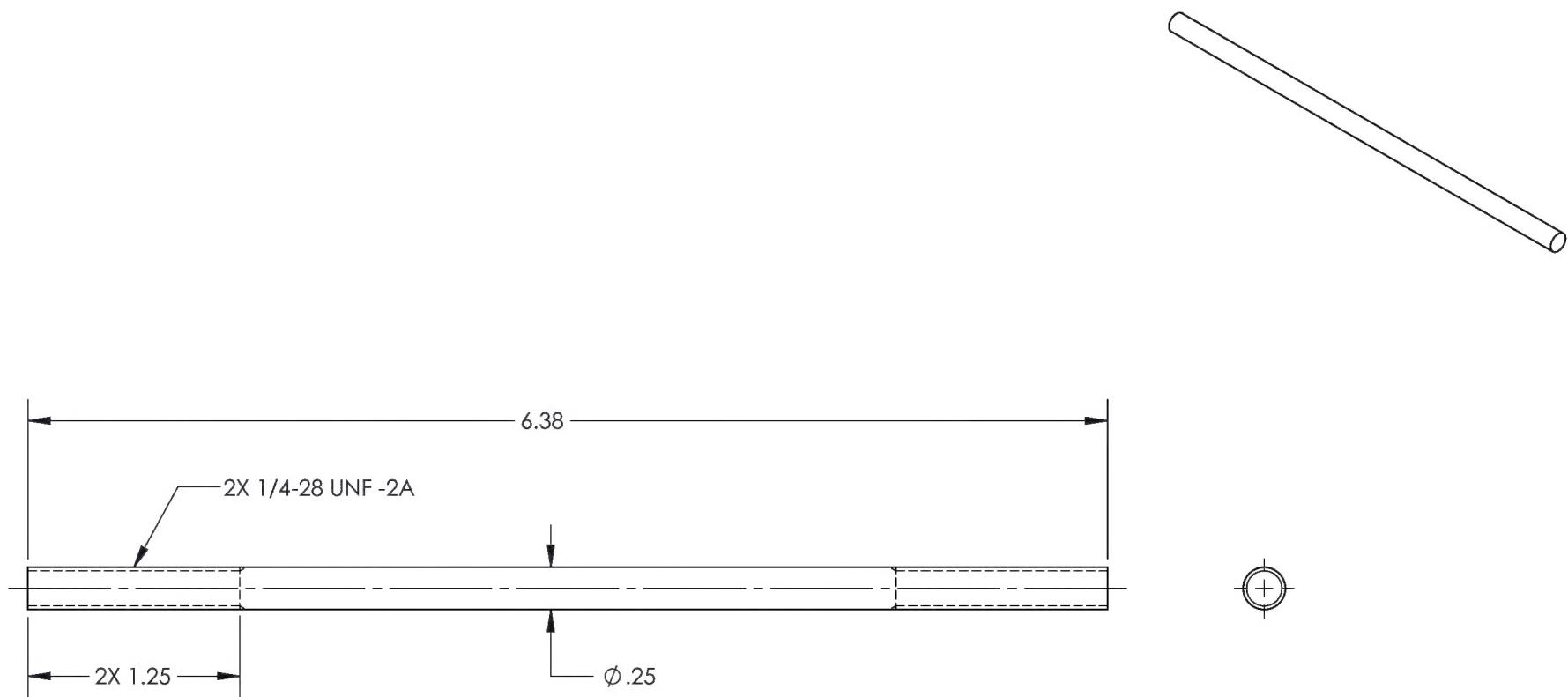
THREADED ROD

-157

<b>DART</b> AEROSPACE	
TITLE	
TOW DOLLY	
DWG NO. RBW0905G00134-3G-03-157	
REV 5	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± 5° X ± .1 SURFACES = 125 ✓	
MAT'L 1018/1020 CR HEAT TREAT FINISH ZINC PLATE SPEC ASTM B633 TYPE I SC 2 DRAWN BY: MARPET CHECKED: MACKOVJAK OPPS APPR: ANDERSON QA APPR: LINDSAY APPROVED: GILBERT	
USED ON MODEL AGUSTA AW139	
SCALE 1:2	DATE 1/28/2013
SHEET 45 OF 49	

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REV	ECR	REVISIONS	DESCRIPTION	DATE	INITIAL	APPROVED
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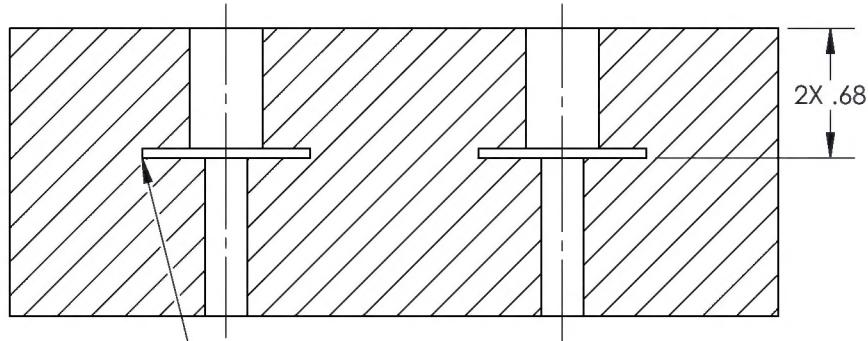
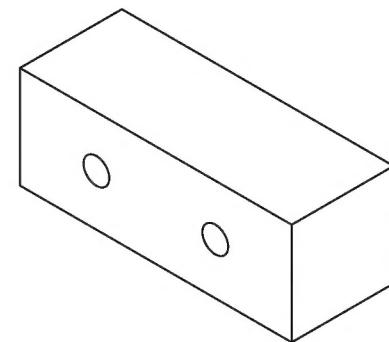
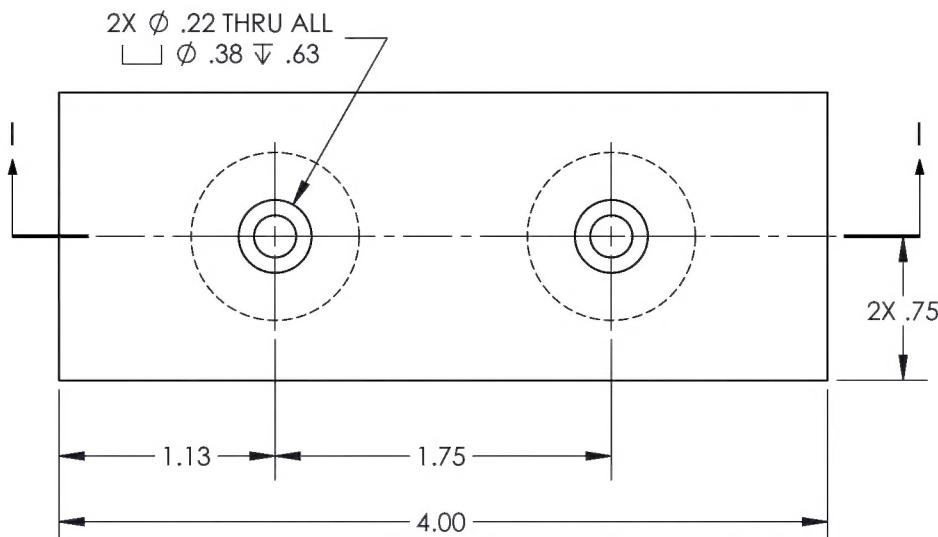
THREADED ROD

-159

DART AEROSPACE	
TITLE	
TOW DOLLY	
DWG NO. RBW0905G00134-3G-03-159	
REV 5	
MAT'L 1018/1020 CR	
UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
.XXX ± .005 FRACTIONS ± 1/8	
.XX ± .01 ANGLES ± 5°	
.X ± .1 SURFACES = 125 ✓	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY: MARPET	
CHECKED: MACKOVJAK	
OPPS APPR: ANDERSON	
QA APPR: LINDSAY USED ON MODEL	
APPROVED: GILBERT AGUSTA AW139	
SCALE 1:1	DATE 1/28/2013
SHEET 46 OF 49	

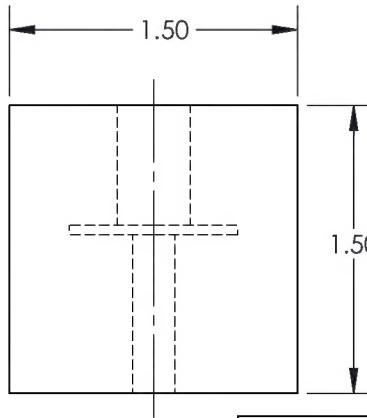
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			REVISIONS			
REV	ECR		DESCRIPTION	DATE	INITIAL	APPROVED
4	16-0029		-161 CH'D DIM WAS 2X $\phi$ .266 THRU ALL   $\phi$ .44 $\nabla$ .63 IS 2X $\phi$ .22 THRU ALL   $\phi$ .38 $\nabla$ .63.	2/9/2016	RJC	JAG



SECTION I-I

2X MOLD -257 INTO CAST

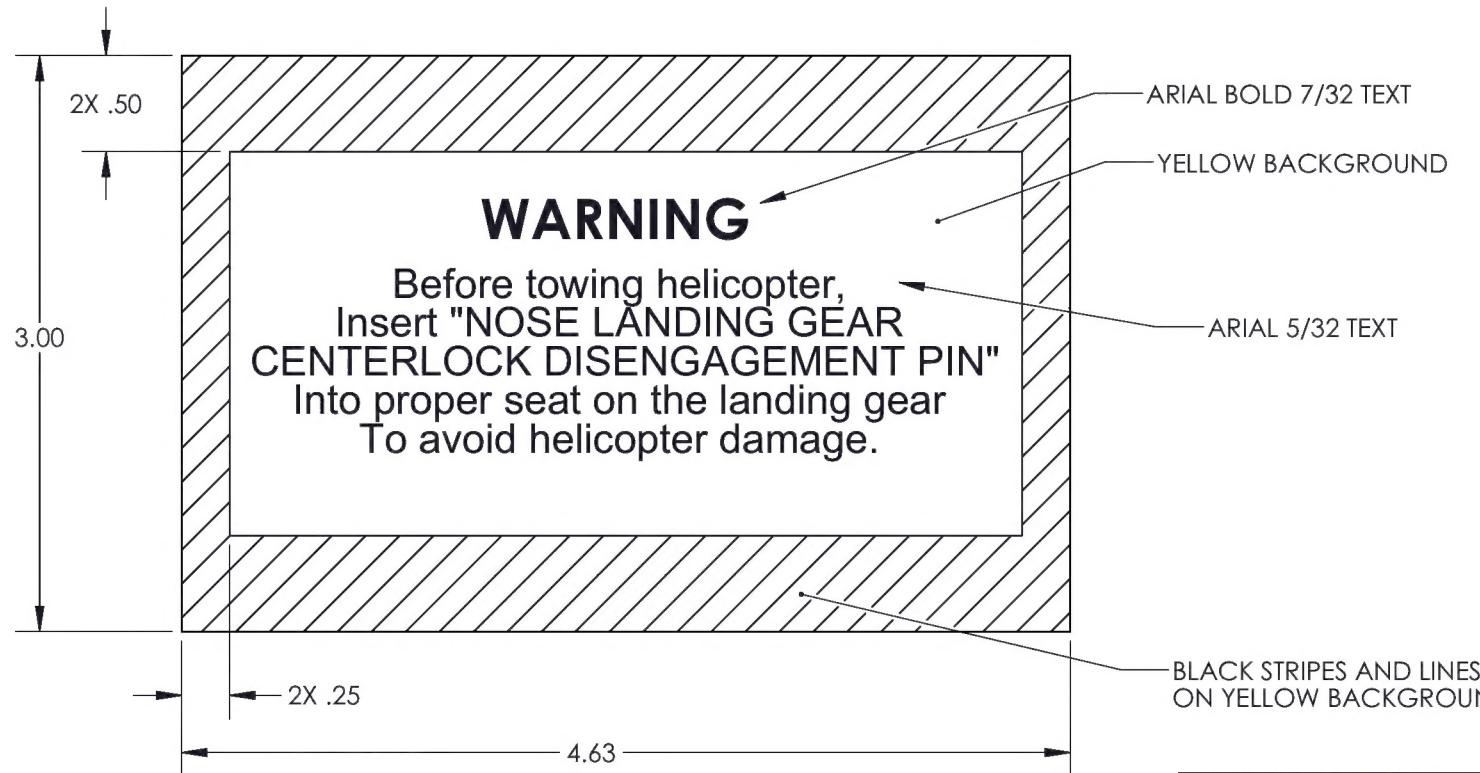


NOTE:  
CAST AS REQUIRED.

DART AEROSPACE	
TITLE	
TOW DOLLY	
DWG NO. RBW0905G0134-3G-03-161	
REV 5	
MAT'L URETHANE 60A	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
HEAT	.XXX $\pm$ .010 FRACTIONS $\pm$ 1/8
TREAT	.XX $\pm$ .03 ANGLES $\pm$ 1°
FINISH	X $\pm$ .1 SURFACES = 125
SPEC	✓
DRAWN BY: CLOUGH	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
CHECKED: MACKOVJAK	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
OPPS APPR: ANDERSON	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
QA APPR: LINDSAY	USED ON MODEL
APPROVED: GILBERT	AGUSTA AW139
SCALE 1:1	DATE 11/19/2012
SHEET 47 OF 49	

(-161)

PAD



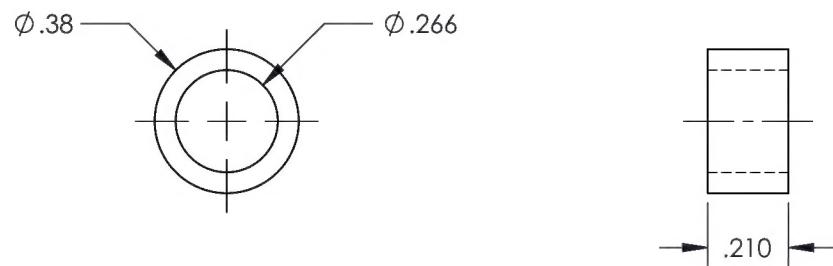
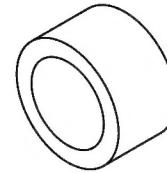
WARNING STICKER WITH ADHESIVE BACK

(-237)

TITLE		DWG NO.		REV
TOW DOLLY		RBW0905G00134-36-03-237		5
MATERIAL		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
HEAT	TREAT	.XXX	± .010	FRACTIONS ± 1/8
FINISH		.XX	± .03	ANGLES ± 1°
SPEC		X	± .1	SURFACES = 125 ✓
DRAWN BY:	MARPET			1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
CHECKED:	MACKOVJAK			2. DIMENSIONAL LIMITS APPLY AFTER PLATING
OPPS APPR:	ANDERSON			3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
QA APPR:	LINDSAY			USED ON MODEL
APPROVED:	GILBERT			
SCALE	1:1	DATE	2/5/2013	SHEET 48 OF 49

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3	14-0228	-251 ADDED DRAWING FOR MODIFIED B/O.	2/2/2015	RJC	JAG



-251

SLEEVE

DART AEROSPACE	
TITLE	
TOW DOLLY	
DWG NO.	RBW0905G00134-3G-251
REV	5
MATERIAL BRONZE	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
HEAT	.XXX ± .005 FRACTIONS ± 1/8
TREAT	.XX ± .01 ANGLES ± 5°
FINISH	X ± .1 SURFACES = 125
SPEC	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
DRAWN BY:	CLOUGH
CHECKED:	MACKOVJAK
OPPS APPR:	ANDERSON
QA APPR:	LINDSAY
APPROVED:	GILBERT
USED ON MODEL	
AW139	
SCALE	2:1
DATE	1/23/2013
SHEET 49 OF 49	